

CALPOST Version 6.221 Level 080724

Internal Coordinate Transformations by --- COORDLIB Version: 1.99 Level: 070921

Run Title:

Cleco, Brame Energy Center, Rodemacher II
BRETON WILDERNESS AREA CALPOST 2003
VISIBILITY METHOD 8

INPUT GROUP: 1 -- General run control parameters

Option to run all periods found
in the met. file(s) (METRUN) Default: 0 ! METRUN = 1 !

METRUN = 0 - Run period explicitly defined below
METRUN = 1 - Run all periods in CALPUFF data file(s)

Starting date: Year (ISYR) -- No default !ISYR = 2003 !
Month (ISMO) -- No default !ISMO = 1 !
Day (ISDY) -- No default !ISDY = 1 !
Starting time: Hour (ISHR) -- No default !ISHR = 0 !
Minute (ISMIN) -- No default !ISMIN = 0 !
Second (ISSEC) -- No default !ISSEC = 0 !

Ending date: Year (IEYR) -- No default !IEYR = 2003 !
Month (IEMO) -- No default !IEMO = 12 !
Day (IEDY) -- No default !IEDY = 31 !
Ending time: Hour (IEHR) -- No default !IEHR = 0 !
Minute (IEMIN) -- No default !IEMIN = 0 !
Second (IESEC) -- No default !IESEC = 0 !

(These are only used if METRUN = 0)

All times are in the base time zone of the CALPUFF simulation.
CALPUFF Dataset Version 2.1 contains the zone, but earlier versions
do not, and the zone must be specified here. The zone is the
number of hours that must be ADDED to the time to obtain UTC (or GMT).
Identify the Base Time Zone for the CALPUFF simulation
(BTZONE) -- No default !BTZONE = 6.0 !

Process every period of data?
(NREP) -- Default: 1 !NREP = 1 !
(1 = every period processed,
2 = every 2nd period processed,

5 = every 5th period processed, etc.)

Species & Concentration/Deposition Information

Species to process (ASPEC) -- No default ! ASPEC = VISIB !
(ASPEC = VISIB for visibility processing)

Layer/deposition code (ILAYER) -- Default: 1 ! ILAYER = 1 !
'1' for CALPUFF concentrations,
'-1' for dry deposition fluxes,
'-2' for wet deposition fluxes,
'-3' for wet+dry deposition fluxes.

Scaling factors of the form: -- Defaults: ! A = 0.0 !
 $X(\text{new}) = X(\text{old}) * A + B$ A = 0.0 ! B = 0.0 !
(NOT applied if A = B = 0.0) B = 0.0

Add Hourly Background Concentrations/Fluxes?
(LBACK) -- Default: F ! LBACK = F !

Source of NO2 when ASPEC=NO2 (above) or LVNO2=T (Group 2) may be from CALPUFF NO2 concentrations OR from a fraction of CALPUFF NOx concentrations. Specify the fraction of NOx that is treated as NO2 either as a constant or as a table of fractions that depend on the magnitude of the NOx concentration:

(NO2CALC) -- Default: 1 ! NO2CALC = 1 !
0 = Use NO2 directly (NO2 must be in file)
1 = Specify a single NO2/NOx ratio (RNO2NOX)
2 = Specify a table NO2/NOx ratios (TNO2NOX)
(NOTE: Scaling Factors must NOT be used with NO2CALC=2)

Single NO2/NOx ratio (0.0 to 1.0) for treating some or all NOx as NO2, where [NO2] = [NOX] * RNO2NOX
(used only if NO2CALC = 1)
(RNO2NOX) -- Default: 1.0 ! RNO2NOX = 1.0 !

Table of NO2/NOx ratios that vary with NOx concentration.
Provide 14 NOx concentrations (ug/m**3) and the corresponding NO2/NOx ratio, with NOx increasing in magnitude. The ratio used for a particular NOx concentration is interpolated from the values provided in the table. The ratio for the smallest tabulated NOx concentration (the first) is used for all NOx concentrations less than the smallest tabulated value, and the ratio for the largest tabulated NOx concentration (the last) is used for all NOx concentrations greater than the largest tabulated value.
(used only if NO2CALC = 2)

NOx concentration(ug / m3)
(CNOX) -- No default
! CNOX = 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0,
8.0, 9.0, 10.0, 11.0, 12.0, 13.0, 14.0 !

NO2/NOx ratio for each NOx concentration:
(TNO2NOX) -- No default

```
! TNO2NOX = 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0,  
    1.0, 1.0, 1.0, 1.0, 1.0, 1.0 !
```

Source information

Option to process source contributions:

- 0 = Process only total reported contributions
 - 1 = Sum all individual source contributions and process
 - 2 = Run in TRACEBACK mode to identify source contributions at a SINGLE receptor
- (MSOURCE) -- Default: 0 ! MSOURCE = 0 !

Plume Model Output Processing Options

Output from models other than CALPUFF and CALGRID can be written in the CONC.DAT format and processed by CALPOST. Plume models such as AERMOD typically do not treat CALM hours, and do not include such hours in multiple-hour averages, with specific rules about how many calm hours can be removed from an average. This treatment is known as CALM PROCESSING. Calm periods are identified from wind speeds in the meteorological data file for the application, which must be identified in Input Group 0 as the single-point meteorological data file MET1DAT.

- 0 = Option is not used for CALPUFF/CALGRID output files
 - 1 = Apply CALM processing procedures to multiple-hour averages
- (MCALMPRO) -- Default: 0 ! MCALMPRO = 0 !

Format of Single-point Met File

- 1 = AERMOD/AERMET SURFACE file
- (MET1FMT) -- Default: 1 ! MET1FMT = 1 !

Receptor information

Gridded receptors processed? (LG) -- Default: F ! LG = F !

Discrete receptors processed? (LD) -- Default: F ! LD = T !

CTSG Complex terrain receptors processed?

(LCT) -- Default: F ! LCT = F !

--Report results by DISCRETE receptor RING?

(only used when LD = T) (LDRING) -- Default: F ! LDRING = F !

--Select range of DISCRETE receptors (only used when LD = T):

Select ALL DISCRETE receptors by setting NDRECP flag to -1;

OR

Select SPECIFIC DISCRETE receptors by entering a flag (0,1) for each

0 = discrete receptor not processed

1 = discrete receptor processed

using repeated value notation to select blocks of receptors:

23*1, 15*0, 12*1

Flag for all receptors after the last one assigned is set to 0

(NDRECP) -- Default: -1
! NDRECP = 80*0, 40*1!

--Select range of GRIDDED receptors (only used when LG = T):

X index of LL corner (IBGRID) -- Default: -1 ! IBGRID = -1 !
(-1 OR 1 <= IBGRID <= NX)

Y index of LL corner (JBGRID) -- Default: -1 ! JBGRID = -1 !
(-1 OR 1 <= JBGRID <= NY)

X index of UR corner (IEGRID) -- Default: -1 ! IEGRID = -1 !
(-1 OR 1 <= IEGRID <= NX)

Y index of UR corner (JEGRID) -- Default: -1 ! JEGRID = -1 !
(-1 OR 1 <= JEGRID <= NY)

Note: Entire grid is processed if IBGRID=JBGRID=IEGRID=JEGRID=-1

--Specific gridded receptors can also be excluded from CALPOST processing by filling a processing grid array with 0s and 1s. If the processing flag for receptor index (i,j) is 1 (ON), that receptor will be processed if it lies within the range delineated by IBGRID, JBGRID,IEGRID,JEGRID and if LG=T. If it is 0 (OFF), it will not be processed in the run. By default, all array values are set to 1 (ON).

Number of gridded receptor rows provided in Subgroup (1a) to identify specific gridded receptors to process
(NGONOFF) -- Default: 0 ! NGONOFF = 0 !

!END!

Subgroup (1a) -- Specific gridded receptors included/excluded

Specific gridded receptors are excluded from CALPOST processing by filling a processing grid array with 0s and 1s. A total of NGONOFF lines are read here. Each line corresponds to one 'row' in the sampling grid, starting with the NORTHERNMOST row that contains receptors that you wish to exclude, and finishing with row 1 to the SOUTH (no intervening rows may be skipped). Within a row, each receptor position is assigned either a 0 or 1, starting with the westernmost receptor.

0 = gridded receptor not processed
1 = gridded receptor processed

Repeated value notation may be used to select blocks of receptors:
23*1, 15*0, 12*1

Because all values are initially set to 1, any receptors north of the first row entered, or east of the last value provided in a row, remain ON.

(NGXRECP) -- Default: 1

INPUT GROUP: 2 -- Visibility Parameters (ASPEC = VISIB)

Test visibility options specified to see
if they conform to FLAG 2008 configuration?

(MVISCHECK) -- Default: 1 ! MVISCHECK = 1 !

0 = NO checks are made

1 = Technical options must conform to FLAG 2008 visibility guidance

ASPEC = VISIB

LVNO2 = T

NO2CALC = 1

RNO2NOX = 1.0

MVISBK = 8

M8_MODE = 5

Some of the data entered for use with the FLAG 2008 configuration
are specific to the Class I area being evaluated. These values can
be checked within the CALPOST user interface when the name of the
Class I area is provided.

Name of Class I Area (used for QA purposes only)

(AREANAME) -- Default: User ! AREANAME = BRET !

Particle growth curve f(RH) for hygroscopic species

(MFRH) -- Default: 4 ! MFRH = 4 !

1 = IWAQM (1998) f(RH) curve (originally used with MVISBK=1)

2 = FLAG (2000) f(RH) tabulation

3 = EPA (2003) f(RH) tabulation

4 = IMPROVE (2006) f(RH) tabulations for sea salt, and for small and
large SULFATE and NITRATE particles;

Used in Visibility Method 8 (MVISBK = 8 with M8_MODE = 1, 2, or 3)

Maximum relative humidity (%) used in particle growth curve

(RHMAX) -- Default: 98 ! RHMAX = 95 !

Modeled species to be included in computing the light extinction

Include SULFATE? (LVS04) -- Default: T ! LVS04 = T !

Include NITRATE? (LVNO3) -- Default: T ! LVNO3 = T !

Include ORGANIC CARBON? (LVOC) -- Default: T ! LVOC = T !

Include COARSE PARTICLES? (LVMPC) -- Default: T ! LVMPC = T !

Include FINE PARTICLES? (LVMF) -- Default: T ! LVMF = T !

Include ELEMENTAL CARBON? (LVEC) -- Default: T ! LVEC = T !

Include NO2 absorption? (LVNO2) -- Default: F ! LVNO2 = T !

With Visibility Method 8 -- Default: T

FLAG (2008)

And, when ranking for TOP-N, TOP-50, and Exceedance tables,

Include BACKGROUND? (LVBK) -- Default: T ! LVBK = T !

Species name used for particulates in MODEL.DAT file
COARSE (SPECPMC) -- Default: PMC ! SPECPMC = PMC !
FINE (SPECPMF) -- Default: PMF ! SPECPMF = PMF !

Extinction Efficiency (1/Mm per ug/m**3)

MODELED particulate species:

PM COARSE (EEPNC) -- Default: 0.6 ! EEPNC = 0.6 !
PM FINE (EEPNF) -- Default: 1.0 ! EEPNF = 1 !

BACKGROUND particulate species:

PM COARSE (EPMCBK) -- Default: 0.6 ! EPMCBK = 0.6 !

Other species:

AMMONIUM SULFATE (EESO4) -- Default: 3.0 ! EESO4 = 3 !
AMMONIUM NITRATE (EENO3) -- Default: 3.0 ! EENO3 = 3 !
ORGANIC CARBON (EEOC) -- Default: 4.0 ! EEOC = 4 !
SOIL (EESOIL) -- Default: 1.0 ! EESOIL = 1 !
ELEMENTAL CARBON (EEECC) -- Default: 10. ! EEECC = 10 !
NO2 GAS (EENO2) -- Default: .1755 ! EENO2 = 0.1755 !

Visibility Method 8:

AMMONIUM SULFATE (EESO4S) Set Internally (small)
AMMONIUM SULFATE (EESO4L) Set Internally (large)
AMMONIUM NITRATE (EENO3S) Set Internally (small)
AMMONIUM NITRATE (EENO3L) Set Internally (large)
ORGANIC CARBON (EEOCS) Set Internally (small)
ORGANIC CARBON (EEOCL) Set Internally (large)
SEA SALT (EESALT) Set Internally

Background Extinction Computation

Method used for the 24h-average of percent change of light extinction:
Hourly ratio of source light extinction / background light extinction
is averaged? (LAVER) -- Default: F ! LAVER = F !

Method used for background light extinction

(MVISBK) -- Default: 8 ! MVISBK = 8 !
FLAG (2008)

- 1 = Supply single light extinction and hygroscopic fraction
 - Hourly F(RH) adjustment applied to hygroscopic background and modeled sulfate and nitrate
- 2 = Background extinction from speciated PM concentrations (A)
 - Hourly F(RH) adjustment applied to observed and modeled sulfate and nitrate
 - F(RH) factor is capped at F(RHMAX)
- 3 = Background extinction from speciated PM concentrations (B)
 - Hourly F(RH) adjustment applied to observed and modeled sulfate and nitrate
 - Receptor-hour excluded if RH>RHMAX
 - Receptor-day excluded if fewer than 6 valid receptor-hours
- 4 = Read hourly transmissometer background extinction measurements
 - Hourly F(RH) adjustment applied to modeled sulfate and nitrate
 - Hour excluded if measurement invalid (missing, interference, or large RH)
 - Receptor-hour excluded if RH>RHMAX

- Receptor-day excluded if fewer than 6 valid receptor-hours
- 5 = Read hourly nephelometer background extinction measurements
- Rayleigh extinction value (BEXTRAY) added to measurement
 - Hourly F(RH) adjustment applied to modeled sulfate and nitrate
 - Hour excluded if measurement invalid (missing, interference, or large RH)
 - Receptor-hour excluded if RH>RHMAX
 - Receptor-day excluded if fewer than 6 valid receptor-hours
- 6 = Background extinction from speciated PM concentrations
- FLAG (2000) monthly RH adjustment factor applied to observed and modeled sulfate and nitrate
- 7 = Use observed weather or prognostic weather information for background extinction during weather events; otherwise, use Method 2
- Hourly F(RH) adjustment applied to modeled sulfate and nitrate
 - F(RH) factor is capped at F(RHMAX)
 - During observed weather events, compute Bext from visual range if using an observed weather data file, or
 - During prognostic weather events, use Bext from the prognostic weather file
 - Use Method 2 for hours without a weather event
- 8 = Background extinction from speciated PM concentrations using the IMPROVE (2006) variable extinction efficiency formulation (MFRH must be set to 4)
- Split between small and large particle concentrations of SULFATES, NITRATES, and ORGANICS is a function of concentration and different extinction efficiencies are used for each
 - Source-induced change in visibility includes the increase in extinction of the background aerosol due to the change in the extinction efficiency that now depends on total concentration.
 - Fsmall(RH) and Flarge(RH) adjustments for small and large particles are applied to observed and modeled sulfate and nitrate concentrations
 - Fsalt(RH) adjustment for sea salt is applied to background sea salt concentrations
 - F(RH) factors are capped at F(RHMAX)
 - RH for Fsmall(RH), Flarge(RH), and Fsalt(RH) may be obtained from hourly data as in Method 2 or from the FLAG monthly RH adjustment factor used for Method 6 where EPA F(RH) tabulation is used to infer RH, or monthly Fsmall, Flarge, and Fsalt RH adjustment factors can be directly entered.
 - Furthermore, a monthly RH factor may be applied to either hourly concentrations or daily concentrations to obtain the 24-hour extinction.

These choices are made using the M8_MODE selection.

Additional inputs used for MVISBK = 1:

Background light extinction (1/Mm)
 (BEXTBK) -- No default ! BEXTBK = 12 !
 Percentage of particles affected by relative humidity
 (RHFRC) -- No default ! RHFRC = 10 !

Additional inputs used for MVISBK = 6,8:

Extinction coefficients for hygroscopic species (modeled and background) are computed using a monthly RH adjustment factor

in place of an hourly RH factor (VISB.DAT file is NOT needed).
Enter the 12 monthly factors here (RHFAC). Month 1 is January.

(RHFAC) -- No default ! RHFAC = 3.5, 3.3, 3.3, 3.3,
3.4, 3.6, 3.8, 3.8,
3.6, 3.4, 3.4, 3.5 !

Additional inputs used for MVISBK = 7:

The weather data file (DATSAV abbreviated space-delimited) that
is identified as VSRN.DAT may contain data for more than one
station. Identify the stations that are needed in the order in
which they will be used to obtain valid weather and visual range.
The first station that contains valid data for an hour will be
used. Enter up to MXWSTA (set in PARAMS file) integer station IDs
of up to 6 digits each as variable IDWSTA, and enter the corresponding
time zone for each, as variable TZONE (= UTC-LST).

A prognostic weather data file with Bext for weather events may be used
in place of the observed weather file. Identify this as the VSRN.DAT
file and use a station ID of IDWSTA = 999999, and TZONE = 0.

NOTE: TZONE identifies the time zone used in the dataset. The
DATSAV abbreviated space-delimited data usually are prepared
with UTC time rather than local time, so TZONE is typically
set to zero.

(IDWSTA) -- No default * IDWSTA = 000000 *
(TZONE) -- No default * TZONE = 0. *

Additional inputs used for MVISBK = 2,3,6,7,8:

Background extinction coefficients are computed from monthly
CONCENTRATIONS of ammonium sulfate (BKSO4), ammonium nitrate (BKNO3),
coarse particulates (BKPMC), organic carbon (BKOC), soil (BKSOIL), and
elemental carbon (BKEC). Month 1 is January.
(ug/m**3)

(BKSO4) -- No default ! BKSO4 = 0.23, 0.23, 0.23, 0.23,
0.23, 0.23, 0.23,
0.23, 0.23, 0.23 !
(BKNO3) -- No default ! BKNO3 = 0.10, 0.10, 0.10, 0.10,
0.10, 0.10, 0.10,
0.10, 0.10, 0.10 !
(BKPMC) -- No default ! BKPMC = 3.01, 3.01, 3.01, 3.01,
3.01, 3.01, 3.01,
3.01, 3.01, 3.01 !
(BKOC) -- No default ! BKOC = 1.78, 1.78, 1.78, 1.78,
1.78, 1.78, 1.78,
1.78, 1.78, 1.78 !
(BKSOIL) -- No default ! BKSOIL= 0.48, 0.48, 0.48, 0.48,
0.48, 0.48, 0.48,
0.48, 0.48, 0.48 !
(BKEC) -- No default ! BKEC = 0.02, 0.02, 0.02, 0.02,
0.02, 0.02, 0.02,
0.02, 0.02, 0.02 !

Additional inputs used for MVISBK = 8:

Extinction coefficients for hygroscopic species (modeled and background) may be computed using hourly RH values and hourly modeled concentrations, or using monthly RH values inferred from the RHFAC adjustment factors and either hourly or daily modeled concentrations, or using monthly RHFSML, RHFLRG, and RHFSEA adjustment factors and either hourly or daily modeled concentrations.

(M8_MODE) -- Default: 5 ! M8_MODE= 5 !
FLAG (2008)

- 1 = Use hourly RH values from VISB.DAT file with hourly modeled and monthly background concentrations.
- 2 = Use monthly RH from monthly RHFAC and EPA (2003) f(RH) tabulation with hourly modeled and monthly background concentrations.
(VISB.DAT file is NOT needed).
- 3 = Use monthly RH from monthly RHFAC with EPA (2003) f(RH) tabulation with daily modeled and monthly background concentrations.
(VISB.DAT file is NOT needed).
- 4 = Use monthly RHFSML, RHFLRG, and RHFSEA with hourly modeled and monthly background concentrations.
(VISB.DAT file is NOT needed).
- 5 = Use monthly RHFSML, RHFLRG, and RHFSEA with daily modeled and monthly background concentrations.
(VISB.DAT file is NOT needed).

Background extinction coefficients are computed from monthly CONCENTRATIONS of sea salt (BKSALT). Month 1 is January.
(ug/m**3)

(BKSALT) -- No default ! BKSALT= 0.19, 0.19, 0.19, 0.19,
0.19, 0.19, 0.19, 0.19,
0.19, 0.19, 0.19, 0.19 !

Extinction coefficients for hygroscopic species (modeled and background) can be computed using monthly RH adjustment factors in place of an hourly RH factor (VISB.DAT file is NOT needed).
Enter the 12 monthly factors here (RHFSML,RHFLRG,RHFSEA).
Month 1 is January. (Used if M8_MODE = 4 or 5)

Small ammonium sulfate and ammonium nitrate particle sizes
(RHFSML) -- No default ! RHFSML= 4.08, 3.82, 3.79, 3.74,
3.94, 4.12, 4.41, 4.37,
4.18, 3.92, 3.93, 4.06 !

Large ammonium sulfate and ammonium nitrate particle sizes
(RHFLRG) -- No default ! RHFLRG= 2.91, 2.76, 2.74, 2.72,
2.83, 2.94, 3.10, 3.07,
2.97, 2.82, 2.83, 2.90 !

Sea salt particles
(RHFSEA) -- No default ! RHFSEA= 4.10, 3.89, 3.87, 3.85,
4.02, 4.21, 4.44, 4.38,

4.23, 3.99, 4.01, 4.11 !

Additional inputs used for MVISBK = 2,3,5,6,7,8:

Extinction due to Rayleigh scattering is added (1/Mm)
(BEXTRAY) -- Default: 10.0 ! BEXTRAY = 11 !

!END!

INPUT GROUP: 3 -- Output options

Documentation

Documentation records contained in the header of the
CALPUFF output file may be written to the list file.

Print documentation image?
(LDOC) -- Default: F ! LDOC = F !

Output Units

Units for All Output (IPRTU) -- Default: 1 ! IPRTU = 3 !
for for
Concentration Deposition
1 = g/m**3 g/m**2/s
2 = mg/m**3 mg/m**2/s
3 = ug/m**3 ug/m**2/s
4 = ng/m**3 ng/m**2/s
5 = Odour Units

Visibility: extinction expressed in 1/Mega-meters (IPRTU is ignored)

Averaging time(s) reported

1-pd averages (L1PD) -- Default: T ! L1PD = F !
(pd = averaging period of model output)

1-hr averages (L1HR) -- Default: T ! L1HR = F !

3-hr averages (L3HR) -- Default: T ! L3HR = F !

24-hr averages (L24HR) -- Default: T ! L24HR = T !

Run-length averages (LRUNL) -- Default: T ! LRUNL = F !

User-specified averaging time in hours, minutes, seconds
- results for this averaging time are reported if it is not zero

(NAVGH) -- Default: 0 ! NAVGH = 0 !
(NAVGM) -- Default: 0 ! NAVGM = 0 !
(NAVGS) -- Default: 0 ! NAVGS = 0 !

Types of tabulations reported

- 1) Visibility: daily visibility tabulations are always reported for the selected receptors when ASPEC = VISIB.
In addition, any of the other tabulations listed below may be chosen to characterize the light extinction coefficients.
[List file or Plot/Analysis File]

 - 2) Top 50 table for each averaging time selected
[List file only]
(LT50) -- Default: T ! LT50 = F !

 - 3) Top 'N' table for each averaging time selected
[List file or Plot file]
(LTOPN) -- Default: F ! LTOPN = F !
 - Number of 'Top-N' values at each receptor selected (NTOP must be <= 4)
(NTOP) -- Default: 4 ! NTOP = 4 !
 - Specific ranks of 'Top-N' values reported (NTOP values must be entered)
(ITOP(4) array) -- Default: ! ITOP = 1,2,3,4 !
1,2,3,4

 - 4) Threshold exceedance counts for each receptor and each averaging time selected
[List file or Plot file]
(LEXCD) -- Default: F ! LEXCD = F !
 - Identify the threshold for each averaging time by assigning a non-negative value (output units).
 - Default: -1.0
 - Threshold for 1-hr averages (THRESH1) ! THRESH1 = -1.0 !
 - Threshold for 3-hr averages (THRESH3) ! THRESH3 = -1.0 !
 - Threshold for 24-hr averages (THRESH24) ! THRESH24 = -1.0 !
 - Threshold for NAVG-hr averages (THRESHN) ! THRESHN = -1.0 !

 - Counts for the shortest averaging period selected can be tallied daily, and receptors that experience more than NCOUNT counts over any NDAY period will be reported. This type of exceedance violation output is triggered only if NDAY > 0.
- Accumulation period(Days)
(NDAY) -- Default: 0 ! NDAY = 0 !
- Number of exceedances allowed
(NCOUNT) -- Default: 1 ! NCOUNT = 1 !

5) Selected day table(s)

Echo Option -- Many records are written each averaging period selected and output is grouped by day
[List file or Plot file]

(LECHO) -- Default: F ! LECHO = F !

Timeseries Option -- Averages at all selected receptors for each selected averaging period are written to timeseries files. Each file contains one averaging period, and all receptors are written to a single record each averaging time.

[TSERIES_ASPEC_ttHR_CONC_TSUNAM.DAT files]
(LTIME) -- Default: F ! LTIME = F !

Peak Value Option -- Averages at all selected receptors for each selected averaging period are screened and the peak value each period is written to timeseries files.

Each file contains one averaging period.

[PEAKVAL_ASPEC_ttHR_CONC_TSUNAM.DAT files]
(LPEAK) -- Default: F ! LPEAK = F !

-- Days selected for output

(IECHO(366)) -- Default: 366*0
! IECHO = 366*0 !
(366 values must be entered)

Plot output options

Plot files can be created for the Top-N, Exceedance, and Echo tables selected above. Two formats for these files are available, DATA and GRID. In the DATA format, results at all receptors are listed along with the receptor location [x,y,val1,val2,...].

In the GRID format, results at only gridded receptors are written, using a compact representation. The gridded values are written in rows (x varies), starting with the most southern row of the grid.

The GRID format is given the .GRD extension, and includes headers compatible with the SURFER(R) plotting software.

A plotting and analysis file can also be created for the daily peak visibility summary output, in DATA format only.

Generate Plot file output in addition to writing tables to List file?

(LPLT) -- Default: F ! LPLT = F !

Use GRID format rather than DATA format, when available?

(LGRD) -- Default: F ! LGRD = F !

Auxiliary Output Files (for subsequent analyses)

Visibility

A separate output file may be requested that contains the change in visibility at each selected receptor when ASPEC = VISIB. This file can be processed to construct visibility measures that are not available in CALPOST.

Output file with the visibility change at each receptor?
(MDVIS) -- Default: 0 ! MDVIS = 1 !

- 0 = Do Not create file
- 1 = Create file of DAILY (24 hour) Delta-Deciview
- 2 = Create file of DAILY (24 hour) Extinction Change (%)
- 3 = Create file of HOURLY Delta-Deciview
- 4 = Create file of HOURLY Extinction Change (%)

Additional Debug Output

Output selected information to List file
for debugging?
(LDEBUG) -- Default: F ! LDEBUG = F !

Output hourly extinction information to REPORT.HRV?
(Visibility Method 7)
(LVEXTHR) -- Default: F ! LVEXTHR = F !

!END!

NOTICE: Starting year in control file sets the
expected century for the simulation. All
YY years are converted to YYYY years in
the range: 1953 2052

```
*****  
*****  
CALPOST Version 6.221      Level 080724  
*****  
*****
```

CALPOST Control File Input Summary

Replace run data with data in Puff file 1=Y: 1
Run starting date -- year: 2003
month: 1
day: 1
Julian day: 0
Time at start of run - hour(0-23): 0
- minute: 0
- second: 0

Run ending date -- year: 2003
month: 12
day: 31
Julian day: 0
Time at end of run - hour(0-23): 0
- minute: 0
- second: 0

Base time zone (Group 1): 6.0

Every period of data processed -- NREP = 1

Species & Concentration/Deposition Information

Species: VISIB
Layer of processed data: 1
(>0=conc, -1=dry flux, -2=wet flux, -3=wet & dry flux)
Multiplicative scaling factor: 0.0000E+00
Additive scaling factor: 0.0000E+00
Hourly background values used?: F

SAMPLER option

Processing method: 0
0= SAMPLER option not used
1= Report total modeled impact (list file)
2= TRACEBACK mode (DAT files)
3= TRACEBACK mode with sampling factor (DAT files)

Source information

Source contribution processing: 0
0= No source contributions
1= Contributions are summed
2= TRACEBACK mode for 1 receptor
3= Reported TOTAL is processed

Receptor information

Gridded receptors processed?: F
Discrete receptors processed?: T
CTSG Complex terrain receptors processed?: F

Discrete Receptors Processed

Visibility Processing Selected

Visibility Options are Checked for FLAG 2008

Class I Area: BRET

Extinction Computation includes:

SULFATES

NITRATES

NO₂ GAS

Fraction CALPUFF NOx used as NO₂ : 1.000

ORGANIC CARBON

ELEMENTAL CARBON

COARSE PARTICLES

FINE PARTICLES

BACKGROUND

Particle f(RH) growth curve(s) : IMPROVE (2006) Tables

Max. RH % for particle growth (%): 95.000

Species name for modeled particulates

coarse: PMC

fine: PMF

Extinction Efficiency (1/Mm per ug/m**3)

ammonium sulfate S: 2.2000

ammonium sulfate L: 4.8000

ammonium nitrate S: 2.4000

ammonium nitrate L: 5.1000

organic carbon S: 2.8000

organic carbon L: 6.1000

sea salt: 1.7000

NO₂ gas: 0.1755

soil: 1.0000

elemental carbon: 10.0000

MODELED coarse PM: 0.6000

MODELED fine PM: 1.0000

BACKGRND coarse PM: 0.6000

Background Extinction Calculation Method 8

Method 8 Mode: 5

(24-hr avg conc. with monthly F(RH) data)

Monthly RH factor for small particles:

1 .4080E+01

2 .3820E+01

3 .3790E+01

4 .3740E+01

5 .3940E+01

6 .4120E+01

7 .4410E+01

8 .4370E+01

9 .4180E+01

10 .3920E+01

11 .3930E+01

12 .4060E+01

Monthly RH factor for large particles:

1 .2910E+01

2 .2760E+01

3 .2740E+01

4 .2720E+01
5 .2830E+01
6 .2940E+01
7 .3100E+01
8 .3070E+01
9 .2970E+01
10 .2820E+01
11 .2830E+01
12 .2900E+01

Monthly RH factor for sea salt:

1 .4100E+01
2 .3890E+01
3 .3870E+01
4 .3850E+01
5 .4020E+01
6 .4210E+01
7 .4440E+01
8 .4380E+01
9 .4230E+01
10 .3990E+01
11 .4010E+01
12 .4110E+01

Rayleigh scattering extinction (1/Mm): 11.00

Monthly background conc. (ug/m**3):

	(NH4)2SO4	(NH4)NO3	PM-C	OC	SOIL	EC	SEA SALT
1	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00
2	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00
3	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00
4	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00
5	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00
6	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00
7	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00
8	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00
9	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00
10	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00
11	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00
12	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00

Optional output file for visibility 1

Create file of DAILY (24 hour) Delta-Deciview

Output options

Units requested for output: (1/Mega-m)

Averaging time(s) selected

User-specified averaging time (hr:mm:ss): 0: 0: 0

1-pd averages: F

1-hr averages: F

3-hr averages: F

24-hr averages: T
User-specified averages: F
Length of run averages: F

Output components selected

Top-50: F
Top-N values at each receptor: F
Exceedance counts at each receptor: F
Output selected information for debugging: F
Echo tables for selected days: F
Time-series for selected days: F
Peak value Time-series for selected days: F

Plot file option

Plot files created: F

MAPSPEC: Species Mapping

Number of species-levels in file : 9

Number of species-levels processed: 10

Input ID	Processing ID	Name
1	1	SO2
2	2	SO4
3	3	NOX
4	4	HNO3
5	5	NO3
6	6	PMC
7	7	PMF
8	8	EC
9	9	SOA

Visibility Species

	Processing ID	Name
sulfate	2	SO4
no2gas	10	NO2
noxgas	3	NOX
nitrate	5	NO3
specpmf	7	PMF
specpmc	6	PMC
orgcarb	9	SOA
lmncarb	8	EC

IDENTIFICATION OF PROCESSED MODEL FILE -----

CALPUFF 5.8.4 130731

CLECO, Brame, Rodemacher II

ALM-step1

Repartitioning of NO3/HNO3

Averaging time for values reported from model:

1 HOUR

Number of averaging periods in file from model:
8740

Chemical species names for each layer in model:

SO ₂	1
SO ₄	1
NOX	1
HNO ₃	1
NO ₃	1
PMC	1
PMF	1
EC	1
SOA	1

QA Information -- Internal Representation of Data

CONTENTS OF CONTROL FILE -----

EESOIL,EEEC,EENO2 = 1.00000000 10.0000000 0.175500005
 navg,ntop = 0 4
 navgh,navgm,navgs = 0 0 0
 itop = 1 2 3 4
 L[1,3,24]HR = F F T
 LNAVG, LRUNL = F F
 LT50, LTOPN, LEXCD = F F F
 LECHO, LTIME, LPEAK = F F F
 THRESH1 = -1.00000000
 THRESH3 = -1.00000000
 THRESH24 = -1.00000000
 THRESHN = -1.00000000
 PLT, LGRD = F F
 MDVIS = 1
 LDEBUG = F
 LCTSG = F

CONTENTS OF HEADER OF MODEL OUTPUT FILE -----

model : CALPUFF 5.8.4 130731
 msyr,mjsday = 2002 365
 mshr,mssec = 23 0
 nsecdt (period) = 3600
 xbtz = 6.00000000
 mnper,nszout,mavgp = 8740 9 1
 xorigkm,yorigkm,nssta = -951.547058 -1646.63708 0
 ielmet,jelmet = 462 376
 delx,dely,nz = 4.00000000 4.00000000 1
 iastar,iastop,jastar,jastop = 288 451 117 274
 isastr,isastp,jsastr,jsastp = 1 462 1 376
 (computed) ngx,ngy = 462 376
 meshdn,npts,nareas = 1 1 0
 nlines,nvols = 0 0
 ndrec,nctrec,LSGRID = 120 0 F

Discrete Receptors (n,x,y,z):

1 270.325867 -617.518921 365.000000
 2 271.090393 -617.494019 365.000000
 3 271.854797 -617.469116 368.000000
 4 268.767273 -616.646362 411.000000
 5 269.531677 -616.621704 462.000000
 6 270.295959 -616.597046 431.000000
 7 271.060364 -616.572144 518.000000
 8 271.824768 -616.547241 487.000000
 9 272.589050 -616.522339 396.000000
 10 265.680481 -615.822632 518.000000
 11 266.444763 -615.798218 523.000000
 12 267.209045 -615.773682 548.000000
 13 267.973328 -615.749146 579.000000
 14 268.737610 -615.724487 547.000000
 15 269.501892 -615.699829 538.000000
 16 270.266174 -615.675049 640.000000
 17 271.030334 -615.650269 608.000000
 18 260.301697 -615.069458 335.000000
 19 261.065857 -615.045532 431.000000
 20 261.830139 -615.021606 457.000000
 21 262.594299 -614.997559 414.000000

22 263.358459 -614.973511 426.000000
23 264.122742 -614.949341 426.000000
24 264.886902 -614.924927 388.000000
25 265.651062 -614.900635 388.000000
26 266.415344 -614.876343 365.000000
27 267.179504 -614.851807 386.000000
28 267.943665 -614.827271 396.000000
29 268.707825 -614.802612 426.000000
30 269.471985 -614.777954 446.000000
31 270.236267 -614.753174 441.000000
32 271.000427 -614.728394 457.000000
33 271.764587 -614.703491 465.000000
34 272.528748 -614.678589 442.000000
35 273.293030 -614.653442 426.000000
36 260.272888 -614.147583 304.000000
37 261.036926 -614.123657 304.000000
38 261.801086 -614.099731 319.000000
39 262.565247 -614.075684 334.000000
40 263.329407 -614.051636 370.000000
41 264.093567 -614.027344 405.000000
42 264.857605 -614.003052 409.000000
43 265.621765 -613.978760 450.000000
44 266.385803 -613.954346 518.000000
45 267.149963 -613.929932 609.000000
46 267.914124 -613.905396 534.000000
47 268.678162 -613.880737 517.000000
48 269.442200 -613.856079 575.000000
49 270.206360 -613.831299 600.000000
50 270.970520 -613.806519 609.000000
51 271.734558 -613.781616 609.000000
52 272.498596 -613.756714 561.000000
53 261.008118 -613.201782 335.000000
54 261.772156 -613.177856 432.000000
55 262.536194 -613.153809 487.000000
56 263.300232 -613.129639 499.000000
57 264.064270 -613.105469 514.000000
58 264.828308 -613.081177 442.000000
59 265.592346 -613.056885 439.000000
60 266.356384 -613.032471 395.000000
61 267.120422 -613.007935 400.000000
62 267.884460 -612.983521 426.000000
63 268.648499 -612.958862 487.000000
64 269.412415 -612.934204 548.000000
65 270.176453 -612.909424 548.000000
66 270.940491 -612.884644 548.000000
67 271.704529 -612.859741 535.000000
68 261.743225 -612.255981 304.000000
69 262.507141 -612.231812 334.000000
70 263.271179 -612.207764 396.000000
71 264.035095 -612.183594 457.000000
72 264.799011 -612.159302 457.000000
73 265.563049 -612.135010 426.000000
74 266.326965 -612.110596 411.000000
75 267.090881 -612.086182 406.000000
76 267.854797 -612.061646 396.000000
77 268.618713 -612.036987 401.000000

78 269.382629 -612.012329 397.000000
79 261.714294 -611.334106 322.000000
80 262.478088 -611.309937 334.000000
81 777.710144 -1118.01306 0.00000000E+00
82 779.970764 -1115.93896 0.00000000E+00
83 780.696716 -1114.93750 0.00000000E+00
84 781.422424 -1113.93604 0.00000000E+00
85 785.606995 -1106.06689 0.00000000E+00
86 789.226868 -1101.05811 0.00000000E+00
87 789.783264 -1098.19727 0.00000000E+00
88 791.229431 -1096.19348 1.00000000
89 791.145813 -1095.26416 1.00000000
90 791.784729 -1093.33289 1.00000000
91 791.700989 -1092.40356 1.00000000
92 792.339539 -1090.47253 1.00000000
93 792.255920 -1089.54321 1.00000000
94 792.172058 -1088.61401 1.00000000
95 792.088196 -1087.68494 1.00000000
96 792.004456 -1086.75574 0.00000000E+00
97 791.920715 -1085.82666 0.00000000E+00
98 791.753235 -1083.96826 0.00000000E+00
99 792.558533 -1083.89575 1.00000000
100 792.474670 -1082.96667 1.00000000
101 791.585754 -1082.11023 0.00000000E+00
102 792.390930 -1082.03760 1.00000000
103 791.502014 -1081.18127 0.00000000E+00
104 792.307068 -1081.10864 1.00000000
105 791.418152 -1080.25220 1.00000000
106 791.334412 -1079.32324 1.00000000
107 790.445862 -1078.46667 0.00000000E+00
108 791.250549 -1078.39417 1.00000000
109 790.362244 -1077.53772 0.00000000E+00
110 791.166931 -1077.46521 1.00000000
111 790.278625 -1076.60876 0.00000000E+00
112 790.194885 -1075.67993 0.00000000E+00
113 790.111267 -1074.75098 1.00000000
114 789.223206 -1073.89453 0.00000000E+00
115 789.139709 -1072.96558 0.00000000E+00
116 788.251770 -1072.10913 0.00000000E+00
117 788.168274 -1071.18030 1.00000000
118 787.280823 -1070.32373 0.00000000E+00
119 786.393372 -1069.46704 0.00000000E+00
120 785.506165 -1068.61035 0.00000000E+00

Surface Met Station UTMs (n,x,y):

Control-file POINT Sources : 1
EMARB-file POINT Sources : 0
Control-file AREA Sources : 0
EMARB-file AREA Sources : 0
Control-file LINE Sources : 0
EMARB-file LINE Sources : 0
Control-file VOLUME Sources: 0
EMARB-file VOLUME Sources : 0

Source Names

UNIT 2

INPUT FILES

Default Name Unit No. File Name and Path

CALPOST.INP	5	CT_RODE_WFGD_03E_BRET.inp
MODEL.DAT	4	pu_rode_wfgd_03e.flx

OUTPUT FILES

Default Name Unit No. File Name and Path

CALPOST.LST	8	ct_rode_wfgd_03e_bret.lst
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CALPOST Version 6.221 Level 080724

24HR VISIBILITY

VISIB BOESNCFG

(1/Mega-m)

START TIME		Modeled Extinction by Species																				
Small	Large	SSalt	YEAR	DAY	HR	RECEPTOR	COORDINATES (km)	TYPE	BEXT(Model)	BEXT(BKG)	BEXT(Total)	%CHANGE	bxSO4	bxNO3	bxOC	bxEC	bxPMC	bxPMF	bxNO2	F(RH)	F(RH)	F(RH)
0.000	0.001	0.001	2002	365	23	120	785.506 -1068.610	D	0.291	23.365	23.655	1.24	0.017	0.268	0.002	0.000	0.001	0.002	4.060	2.900	4.110	
0.000	0.000	0.001	2003	123	123	117	788.168 -1071.180	D	0.076	23.376	23.453	0.33	0.005	0.067	0.002	0.000	0.001	0.002	4.080	2.910	4.100	
0.000	0.000	0.000	2003	223	81	777.710 -1118.013	D	0.000	23.376	23.376	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.080	2.910	4.100	
0.000	0.000	0.000	2003	323	81	777.710 -1118.013	D	0.019	23.376	23.395	0.08	0.001	0.018	0.000	0.000	0.000	0.000	0.000	4.080	2.910	4.100	
0.001	0.001	0.002	2003	423	81	777.710 -1118.013	D	0.421	23.376	23.797	1.80	0.021	0.394	0.003	0.000	0.001	0.002	0.000	4.080	2.910	4.100	
0.000	0.000	0.001	2003	523	120	785.506 -1068.610	D	0.145	23.376	23.522	0.62	0.009	0.133	0.002	0.000	0.001	0.000	0.000	4.080	2.910	4.100	
0.000	0.000	0.000	2003	623	81	777.710 -1118.013	D	0.000	23.376	23.376	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.080	2.910	4.100	

2003	7	23	86	789.227	-1101.058	D	0.934	23.376	24.311	4.00	0.037	0.876	0.009
0.002	0.003	0.005	0.003	4.080	2.910	4.100							
2003	8	23	81	777.710	-1118.013	D	0.000	23.376	23.376	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.080	2.910	4.100							
2003	9	23	81	777.710	-1118.013	D	0.056	23.376	23.432	0.24	0.003	0.051	0.001
0.000	0.000	0.000	0.000	4.080	2.910	4.100							
2003	10	23	81	777.710	-1118.013	D	0.000	23.376	23.376	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.080	2.910	4.100							
2003	11	23	81	777.710	-1118.013	D	0.000	23.376	23.376	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.080	2.910	4.100							
2003	12	23	81	777.710	-1118.013	D	0.000	23.376	23.376	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.080	2.910	4.100							
2003	13	23	81	777.710	-1118.013	D	0.000	23.376	23.376	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.080	2.910	4.100							
2003	14	23	81	777.710	-1118.013	D	0.000	23.376	23.376	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.080	2.910	4.100							
2003	15	23	81	777.710	-1118.013	D	0.040	23.376	23.416	0.17	0.002	0.036	0.001
0.000	0.000	0.000	0.000	4.080	2.910	4.100							
2003	16	23	81	777.710	-1118.013	D	0.000	23.376	23.376	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.080	2.910	4.100							
2003	17	23	81	777.710	-1118.013	D	0.196	23.376	23.572	0.84	0.009	0.184	0.001
0.000	0.000	0.001	0.000	4.080	2.910	4.100							
2003	18	23	120	785.506	-1068.610	D	1.013	23.376	24.390	4.33	0.042	0.945	0.011
0.002	0.003	0.005	0.005	4.080	2.910	4.100							
2003	19	23	81	777.710	-1118.013	D	0.000	23.376	23.376	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.080	2.910	4.100							
2003	20	23	81	777.710	-1118.013	D	0.000	23.376	23.376	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.080	2.910	4.100							
2003	21	23	86	789.227	-1101.058	D	0.775	23.376	24.151	3.31	0.091	0.654	0.011
0.002	0.003	0.005	0.009	4.080	2.910	4.100							
2003	22	23	81	777.710	-1118.013	D	0.000	23.376	23.376	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.080	2.910	4.100							
2003	23	23	81	777.710	-1118.013	D	0.000	23.376	23.376	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.080	2.910	4.100							
2003	24	23	81	777.710	-1118.013	D	0.000	23.376	23.376	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.080	2.910	4.100							
2003	25	23	81	777.710	-1118.013	D	0.000	23.376	23.376	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.080	2.910	4.100							
2003	26	23	81	777.710	-1118.013	D	0.000	23.376	23.376	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.080	2.910	4.100							
2003	27	23	81	777.710	-1118.013	D	0.000	23.376	23.376	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.080	2.910	4.100							
2003	28	23	81	777.710	-1118.013	D	0.000	23.376	23.376	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.080	2.910	4.100							
2003	29	23	81	777.710	-1118.013	D	0.054	23.376	23.431	0.23	0.001	0.052	0.000
0.000	0.000	0.000	0.002	4.080	2.910	4.100							
2003	30	23	120	785.506	-1068.610	D	0.005	23.376	23.381	0.02	0.000	0.004	0.000
0.000	0.000	0.000	0.000	4.080	2.910	4.100							
2003	31	23	120	785.506	-1068.610	D	1.093	23.376	24.469	4.68	0.157	0.904	0.013
0.002	0.004	0.006	0.006	4.080	2.910	4.100							
2003	32	23	87	789.783	-1098.197	D	0.188	23.114	23.303	0.81	0.025	0.159	0.002
0.000	0.001	0.001	0.000	3.820	2.760	3.890							
2003	33	23	81	777.710	-1118.013	D	0.000	23.114	23.114	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.820	2.760	3.890							
2003	34	23	120	785.506	-1068.610	D	0.027	23.114	23.141	0.12	0.001	0.024	0.000
0.000	0.000	0.000	0.001	3.820	2.760	3.890							

2003	35	23	81	777.710	-1118.013	D	0.000	23.114	23.114	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.820	2.760	3.890							
2003	36	23	81	777.710	-1118.013	D	0.000	23.114	23.114	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.820	2.760	3.890							
2003	37	23	81	777.710	-1118.013	D	0.000	23.114	23.114	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.820	2.760	3.890							
2003	38	23	81	777.710	-1118.013	D	0.000	23.114	23.114	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.820	2.760	3.890							
2003	39	23	81	777.710	-1118.013	D	0.000	23.114	23.114	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.820	2.760	3.890							
2003	40	23	81	777.710	-1118.013	D	0.402	23.114	23.516	1.74	0.028	0.357	0.003
0.001	0.001	0.002	0.009	3.820	2.760	3.890							
2003	41	23	120	785.506	-1068.610	D	0.070	23.114	23.184	0.30	0.009	0.061	0.000
0.000	0.000	0.000	0.000	3.820	2.760	3.890							
2003	42	23	120	785.506	-1068.610	D	0.087	23.114	23.201	0.37	0.014	0.070	0.001
0.000	0.000	0.001	0.000	3.820	2.760	3.890							
2003	43	23	120	785.506	-1068.610	D	0.132	23.114	23.246	0.57	0.019	0.109	0.002
0.000	0.001	0.001	0.000	3.820	2.760	3.890							
2003	44	23	119	786.393	-1069.467	D	0.000	23.114	23.114	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.820	2.760	3.890							
2003	45	23	81	777.710	-1118.013	D	0.000	23.114	23.114	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.820	2.760	3.890							
2003	46	23	120	785.506	-1068.610	D	0.183	23.114	23.297	0.79	0.012	0.166	0.001
0.000	0.000	0.000	0.004	3.820	2.760	3.890							
2003	47	23	81	777.710	-1118.013	D	0.022	23.114	23.136	0.09	0.001	0.020	0.000
0.000	0.000	0.000	0.000	3.820	2.760	3.890							
2003	48	23	81	777.710	-1118.013	D	0.001	23.114	23.116	0.01	0.000	0.001	0.000
0.000	0.000	0.000	0.000	3.820	2.760	3.890							
2003	49	23	120	785.506	-1068.610	D	0.000	23.114	23.114	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.820	2.760	3.890							
2003	50	23	81	777.710	-1118.013	D	0.000	23.114	23.114	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.820	2.760	3.890							
2003	51	23	81	777.710	-1118.013	D	0.000	23.114	23.114	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.820	2.760	3.890							
2003	52	23	87	789.783	-1098.197	D	0.042	23.114	23.156	0.18	0.005	0.035	0.001
0.000	0.000	0.000	0.001	3.820	2.760	3.890							
2003	53	23	81	777.710	-1118.013	D	0.000	23.114	23.114	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.820	2.760	3.890							
2003	54	23	120	785.506	-1068.610	D	0.001	23.114	23.115	0.00	0.000	0.001	0.000
0.000	0.000	0.000	0.000	3.820	2.760	3.890							
2003	55	23	120	785.506	-1068.610	D	0.008	23.114	23.122	0.03	0.001	0.007	0.000
0.000	0.000	0.000	0.000	3.820	2.760	3.890							
2003	56	23	120	785.506	-1068.610	D	0.001	23.114	23.115	0.00	0.000	0.001	0.000
0.000	0.000	0.000	0.000	3.820	2.760	3.890							
2003	57	23	81	777.710	-1118.013	D	0.001	23.114	23.115	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.820	2.760	3.890							
2003	58	23	120	785.506	-1068.610	D	0.000	23.114	23.115	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.820	2.760	3.890							
2003	59	23	120	785.506	-1068.610	D	0.000	23.114	23.114	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.820	2.760	3.890							
2003	60	23	81	777.710	-1118.013	D	0.003	23.085	23.089	0.01	0.000	0.003	0.000
0.000	0.000	0.000	0.000	3.790	2.740	3.870							
2003	61	23	81	777.710	-1118.013	D	0.000	23.085	23.085	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.790	2.740	3.870							
2003	62	23	81	777.710	-1118.013	D	0.000	23.085	23.085	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.790	2.740	3.870							

2003	63	23	81	777.710	-1118.013	D	0.000	23.085	23.085	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.790	2.740	3.870							
2003	64	23	120	785.506	-1068.610	D	0.007	23.085	23.092	0.03	0.000	0.006	0.000
0.000	0.000	0.000	0.000	3.790	2.740	3.870							
2003	65	23	81	777.710	-1118.013	D	0.000	23.085	23.085	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.790	2.740	3.870							
2003	66	23	81	777.710	-1118.013	D	0.000	23.085	23.085	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.790	2.740	3.870							
2003	67	23	120	785.506	-1068.610	D	0.002	23.085	23.087	0.01	0.000	0.001	0.000
0.000	0.000	0.000	0.000	3.790	2.740	3.870							
2003	68	23	81	777.710	-1118.013	D	0.009	23.085	23.095	0.04	0.003	0.006	0.000
0.000	0.000	0.000	0.000	3.790	2.740	3.870							
2003	69	23	120	785.506	-1068.610	D	0.008	23.085	23.094	0.04	0.003	0.005	0.000
0.000	0.000	0.000	0.000	3.790	2.740	3.870							
2003	70	23	120	785.506	-1068.610	D	0.000	23.085	23.086	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.790	2.740	3.870							
2003	71	23	81	777.710	-1118.013	D	0.000	23.085	23.085	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.790	2.740	3.870							
2003	72	23	120	785.506	-1068.610	D	0.081	23.085	23.166	0.35	0.009	0.071	0.000
0.000	0.000	0.000	0.000	3.790	2.740	3.870							
2003	73	23	120	785.506	-1068.610	D	0.357	23.085	23.443	1.55	0.039	0.315	0.002
0.000	0.000	0.001	0.000	3.790	2.740	3.870							
2003	74	23	120	785.506	-1068.610	D	0.107	23.085	23.193	0.47	0.014	0.092	0.001
0.000	0.000	0.000	0.000	3.790	2.740	3.870							
2003	75	23	120	785.506	-1068.610	D	0.000	23.085	23.086	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.790	2.740	3.870							
2003	76	23	114	789.223	-1073.895	D	0.000	23.085	23.085	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.790	2.740	3.870							
2003	77	23	81	777.710	-1118.013	D	0.000	23.085	23.085	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.790	2.740	3.870							
2003	78	23	81	777.710	-1118.013	D	0.000	23.085	23.085	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.790	2.740	3.870							
2003	79	23	86	789.227	-1101.058	D	0.432	23.085	23.517	1.87	0.043	0.362	0.011
0.002	0.003	0.006	0.005	3.790	2.740	3.870							
2003	80	23	120	785.506	-1068.610	D	0.223	23.085	23.309	0.97	0.024	0.192	0.004
0.001	0.001	0.002	0.000	3.790	2.740	3.870							
2003	81	23	81	777.710	-1118.013	D	0.555	23.085	23.641	2.41	0.077	0.462	0.008
0.002	0.002	0.004	0.000	3.790	2.740	3.870							
2003	82	23	81	777.710	-1118.013	D	0.273	23.085	23.359	1.18	0.026	0.241	0.003
0.001	0.001	0.002	0.000	3.790	2.740	3.870							
2003	83	23	120	785.506	-1068.610	D	0.006	23.085	23.091	0.03	0.001	0.005	0.000
0.000	0.000	0.000	0.000	3.790	2.740	3.870							
2003	84	23	81	777.710	-1118.013	D	0.000	23.085	23.085	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.790	2.740	3.870							
2003	85	23	81	777.710	-1118.013	D	0.000	23.085	23.085	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.790	2.740	3.870							
2003	86	23	81	777.710	-1118.013	D	0.000	23.085	23.085	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.790	2.740	3.870							
2003	87	23	120	785.506	-1068.610	D	0.037	23.085	23.122	0.16	0.006	0.029	0.001
0.000	0.000	0.000	0.000	3.790	2.740	3.870							
2003	88	23	81	777.710	-1118.013	D	0.000	23.085	23.085	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.790	2.740	3.870							
2003	89	23	85	785.607	-1106.067	D	0.020	23.085	23.106	0.09	0.001	0.019	0.000
0.000	0.000	0.000	0.000	3.790	2.740	3.870							
2003	90	23	120	785.506	-1068.610	D	0.075	23.085	23.161	0.33	0.006	0.068	0.001
0.000	0.000	0.000	0.000	3.790	2.740	3.870							

2003	91	23	81	777.710	-1118.013	D	0.000	23.042	23.042	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.740	2.720	3.850							
2003	92	23	81	777.710	-1118.013	D	0.000	23.042	23.042	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.740	2.720	3.850							
2003	93	23	81	777.710	-1118.013	D	0.000	23.042	23.042	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.740	2.720	3.850							
2003	94	23	81	777.710	-1118.013	D	0.000	23.042	23.042	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.740	2.720	3.850							
2003	95	23	81	777.710	-1118.013	D	0.000	23.042	23.042	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.740	2.720	3.850							
2003	96	23	81	777.710	-1118.013	D	0.000	23.042	23.042	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.740	2.720	3.850							
2003	97	23	120	785.506	-1068.610	D	0.035	23.042	23.076	0.15	0.004	0.030	0.000
0.000	0.000	0.000	0.000	3.740	2.720	3.850							
2003	98	23	88	791.229	-1096.193	D	0.011	23.042	23.053	0.05	0.001	0.010	0.000
0.000	0.000	0.000	0.000	3.740	2.720	3.850							
2003	99	23	81	777.710	-1118.013	D	0.000	23.042	23.042	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.740	2.720	3.850							
2003	100	23	81	777.710	-1118.013	D	0.000	23.042	23.042	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.740	2.720	3.850							
2003	101	23	81	777.710	-1118.013	D	0.032	23.042	23.073	0.14	0.007	0.023	0.001
0.000	0.000	0.000	0.000	3.740	2.720	3.850							
2003	102	23	81	777.710	-1118.013	D	0.236	23.042	23.278	1.03	0.045	0.185	0.003
0.001	0.001	0.002	0.000	3.740	2.720	3.850							
2003	103	23	120	785.506	-1068.610	D	0.064	23.042	23.105	0.28	0.018	0.044	0.001
0.000	0.000	0.001	0.000	3.740	2.720	3.850							
2003	104	23	120	785.506	-1068.610	D	0.001	23.042	23.043	0.01	0.000	0.001	0.000
0.000	0.000	0.000	0.000	3.740	2.720	3.850							
2003	105	23	81	777.710	-1118.013	D	0.000	23.042	23.042	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.740	2.720	3.850							
2003	106	23	86	789.227	-1101.058	D	0.055	23.042	23.097	0.24	0.007	0.046	0.001
0.000	0.000	0.001	0.000	3.740	2.720	3.850							
2003	107	23	81	777.710	-1118.013	D	0.135	23.042	23.177	0.59	0.012	0.120	0.002
0.000	0.001	0.001	0.000	3.740	2.720	3.850							
2003	108	23	120	785.506	-1068.610	D	0.000	23.042	23.042	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.740	2.720	3.850							
2003	109	23	81	777.710	-1118.013	D	0.000	23.042	23.042	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.740	2.720	3.850							
2003	110	23	116	788.252	-1072.109	D	0.043	23.042	23.084	0.19	0.014	0.025	0.002
0.000	0.001	0.001	0.000	3.740	2.720	3.850							
2003	111	23	87	789.783	-1098.197	D	0.055	23.042	23.096	0.24	0.007	0.046	0.001
0.000	0.000	0.000	0.000	3.740	2.720	3.850							
2003	112	23	81	777.710	-1118.013	D	0.001	23.042	23.043	0.01	0.000	0.001	0.000
0.000	0.000	0.000	0.000	3.740	2.720	3.850							
2003	113	23	81	777.710	-1118.013	D	0.000	23.042	23.042	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.740	2.720	3.850							
2003	114	23	120	785.506	-1068.610	D	0.063	23.042	23.104	0.27	0.007	0.054	0.001
0.000	0.000	0.000	0.000	3.740	2.720	3.850							
2003	115	23	87	789.783	-1098.197	D	0.156	23.042	23.197	0.68	0.011	0.141	0.002
0.000	0.000	0.001	0.000	3.740	2.720	3.850							
2003	116	23	81	777.710	-1118.013	D	0.000	23.042	23.042	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.740	2.720	3.850							
2003	117	23	81	777.710	-1118.013	D	0.000	23.042	23.042	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.740	2.720	3.850							
2003	118	23	81	777.710	-1118.013	D	0.000	23.042	23.042	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.740	2.720	3.850							

2003	147	23	81	777.710	-1118.013	D	0.000	23.246	23.246	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.940	2.830	4.020							
2003	148	23	87	789.783	-1098.197	D	0.090	23.246	23.335	0.39	0.011	0.077	0.001
0.000	0.000	0.000	0.000	3.940	2.830	4.020							
2003	149	23	87	789.783	-1098.197	D	0.171	23.246	23.417	0.74	0.055	0.107	0.005
0.001	0.001	0.002	0.000	3.940	2.830	4.020							
2003	150	23	113	790.111	-1074.751	D	0.003	23.246	23.249	0.01	0.000	0.002	0.000
0.000	0.000	0.000	0.000	3.940	2.830	4.020							
2003	151	23	120	785.506	-1068.610	D	0.009	23.246	23.255	0.04	0.006	0.003	0.000
0.000	0.000	0.000	0.000	3.940	2.830	4.020							
2003	152	23	120	785.506	-1068.610	D	0.002	23.442	23.444	0.01	0.000	0.002	0.000
0.000	0.000	0.000	0.000	4.120	2.940	4.210							
2003	153	23	81	777.710	-1118.013	D	0.000	23.442	23.442	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.120	2.940	4.210							
2003	154	23	120	785.506	-1068.610	D	0.011	23.442	23.453	0.05	0.006	0.004	0.000
0.000	0.000	0.000	0.000	4.120	2.940	4.210							
2003	155	23	120	785.506	-1068.610	D	0.005	23.442	23.447	0.02	0.001	0.003	0.000
0.000	0.000	0.000	0.000	4.120	2.940	4.210							
2003	156	23	81	777.710	-1118.013	D	0.000	23.442	23.442	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.120	2.940	4.210							
2003	157	23	120	785.506	-1068.610	D	0.004	23.442	23.446	0.02	0.001	0.003	0.000
0.000	0.000	0.000	0.000	4.120	2.940	4.210							
2003	158	23	87	789.783	-1098.197	D	0.012	23.442	23.454	0.05	0.004	0.007	0.000
0.000	0.000	0.000	0.000	4.120	2.940	4.210							
2003	159	23	120	785.506	-1068.610	D	0.008	23.442	23.450	0.03	0.004	0.004	0.000
0.000	0.000	0.000	0.000	4.120	2.940	4.210							
2003	160	23	120	785.506	-1068.610	D	0.001	23.442	23.443	0.01	0.001	0.001	0.000
0.000	0.000	0.000	0.000	4.120	2.940	4.210							
2003	161	23	81	777.710	-1118.013	D	0.000	23.442	23.442	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.120	2.940	4.210							
2003	162	23	81	777.710	-1118.013	D	0.000	23.442	23.442	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.120	2.940	4.210							
2003	163	23	81	777.710	-1118.013	D	0.000	23.442	23.442	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.120	2.940	4.210							
2003	164	23	81	777.710	-1118.013	D	0.000	23.442	23.442	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.120	2.940	4.210							
2003	165	23	81	777.710	-1118.013	D	0.000	23.442	23.442	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.120	2.940	4.210							
2003	166	23	81	777.710	-1118.013	D	0.000	23.442	23.442	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.120	2.940	4.210							
2003	167	23	81	777.710	-1118.013	D	0.000	23.442	23.442	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.120	2.940	4.210							
2003	168	23	81	777.710	-1118.013	D	0.000	23.442	23.442	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.120	2.940	4.210							
2003	169	23	114	789.223	-1073.895	D	0.000	23.442	23.442	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.120	2.940	4.210							
2003	170	23	120	785.506	-1068.610	D	0.007	23.442	23.449	0.03	0.004	0.004	0.000
0.000	0.000	0.000	0.000	4.120	2.940	4.210							
2003	171	23	120	785.506	-1068.610	D	0.005	23.442	23.447	0.02	0.002	0.002	0.000
0.000	0.000	0.000	0.000	4.120	2.940	4.210							
2003	172	23	120	785.506	-1068.610	D	0.000	23.442	23.442	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.120	2.940	4.210							
2003	173	23	116	788.252	-1072.109	D	0.000	23.442	23.442	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.120	2.940	4.210							
2003	174	23	81	777.710	-1118.013	D	0.000	23.442	23.442	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.120	2.940	4.210							

2003	175	23	81	777.710	-1118.013	D	0.000	23.442	23.442	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	2.940	4.210							
2003	176	23	81	777.710	-1118.013	D	0.000	23.442	23.442	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	2.940	4.210							
2003	177	23	120	785.506	-1068.610	D	0.001	23.442	23.443	0.00	0.001	0.000	0.000
0.000	0.000	0.000	0.000	4.410	2.940	4.210							
2003	178	23	81	777.710	-1118.013	D	0.001	23.442	23.444	0.01	0.001	0.000	0.000
0.000	0.000	0.000	0.000	4.410	2.940	4.210							
2003	179	23	81	777.710	-1118.013	D	0.000	23.442	23.442	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	2.940	4.210							
2003	180	23	81	777.710	-1118.013	D	0.000	23.442	23.442	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	2.940	4.210							
2003	181	23	81	777.710	-1118.013	D	0.000	23.442	23.442	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	2.940	4.210							
2003	182	23	81	777.710	-1118.013	D	0.005	23.733	23.738	0.02	0.001	0.004	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2003	183	23	86	789.227	-1101.058	D	0.003	23.733	23.736	0.01	0.001	0.002	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2003	184	23	120	785.506	-1068.610	D	0.000	23.733	23.734	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2003	185	23	81	777.710	-1118.013	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2003	186	23	81	777.710	-1118.013	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2003	187	23	81	777.710	-1118.013	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2003	188	23	81	777.710	-1118.013	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2003	189	23	81	777.710	-1118.013	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2003	190	23	81	777.710	-1118.013	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2003	191	23	81	777.710	-1118.013	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2003	192	23	120	785.506	-1068.610	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2003	193	23	120	785.506	-1068.610	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2003	194	23	120	785.506	-1068.610	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2003	195	23	120	785.506	-1068.610	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2003	196	23	81	777.710	-1118.013	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2003	197	23	120	785.506	-1068.610	D	0.039	23.733	23.772	0.16	0.022	0.015	0.001
0.000	0.000	0.001	0.000	4.410	3.100	4.440							
2003	198	23	120	785.506	-1068.610	D	0.051	23.733	23.784	0.21	0.016	0.033	0.001
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2003	199	23	120	785.506	-1068.610	D	0.027	23.733	23.761	0.12	0.011	0.016	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2003	200	23	120	785.506	-1068.610	D	0.197	23.733	23.930	0.83	0.122	0.065	0.005
0.001	0.001	0.003	0.000	4.410	3.100	4.440							
2003	201	23	120	785.506	-1068.610	D	0.151	23.733	23.884	0.63	0.040	0.105	0.003
0.001	0.001	0.001	0.000	4.410	3.100	4.440							
2003	202	23	87	789.783	-1098.197	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							

2003	203	23	120	785.506	-1068.610	D	0.010	23.733	23.743	0.04	0.001	0.009	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2003	204	23	120	785.506	-1068.610	D	0.054	23.733	23.787	0.23	0.007	0.046	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2003	205	23	120	785.506	-1068.610	D	0.006	23.733	23.739	0.02	0.002	0.004	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2003	206	23	120	785.506	-1068.610	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2003	207	23	119	786.393	-1069.467	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2003	208	23	120	785.506	-1068.610	D	0.001	23.733	23.734	0.00	0.000	0.001	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2003	209	23	120	785.506	-1068.610	D	0.019	23.733	23.752	0.08	0.007	0.012	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2003	210	23	120	785.506	-1068.610	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2003	211	23	81	777.710	-1118.013	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2003	212	23	81	777.710	-1118.013	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2003	213	23	120	785.506	-1068.610	D	0.001	23.684	23.684	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.370	3.070	4.380							
2003	214	23	119	786.393	-1069.467	D	0.000	23.684	23.684	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.370	3.070	4.380							
2003	215	23	81	777.710	-1118.013	D	0.000	23.684	23.684	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.370	3.070	4.380							
2003	216	23	81	777.710	-1118.013	D	0.000	23.684	23.684	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.370	3.070	4.380							
2003	217	23	81	777.710	-1118.013	D	0.000	23.684	23.684	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.370	3.070	4.380							
2003	218	23	120	785.506	-1068.610	D	0.038	23.684	23.722	0.16	0.008	0.029	0.001
0.000	0.000	0.000	0.000	4.370	3.070	4.380							
2003	219	23	81	777.710	-1118.013	D	0.037	23.684	23.721	0.16	0.008	0.028	0.001
0.000	0.000	0.000	0.000	4.370	3.070	4.380							
2003	220	23	81	777.710	-1118.013	D	0.000	23.684	23.684	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.370	3.070	4.380							
2003	221	23	81	777.710	-1118.013	D	0.000	23.684	23.684	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.370	3.070	4.380							
2003	222	23	81	777.710	-1118.013	D	0.000	23.684	23.684	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.370	3.070	4.380							
2003	223	23	81	777.710	-1118.013	D	0.000	23.684	23.684	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.370	3.070	4.380							
2003	224	23	81	777.710	-1118.013	D	0.000	23.684	23.684	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.370	3.070	4.380							
2003	225	23	81	777.710	-1118.013	D	0.000	23.684	23.684	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.370	3.070	4.380							
2003	226	23	81	777.710	-1118.013	D	0.000	23.684	23.684	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.370	3.070	4.380							
2003	227	23	81	777.710	-1118.013	D	0.000	23.684	23.684	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.370	3.070	4.380							
2003	228	23	81	777.710	-1118.013	D	0.000	23.684	23.684	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.370	3.070	4.380							
2003	229	23	81	777.710	-1118.013	D	0.000	23.684	23.684	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.370	3.070	4.380							
2003	230	23	81	777.710	-1118.013	D	0.000	23.684	23.684	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.370	3.070	4.380							

2003	287	23	81	777.710	-1118.013	D	0.000	23.221	23.221	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.920	2.820	3.990							
2003	288	23	81	777.710	-1118.013	D	0.000	23.221	23.221	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.920	2.820	3.990							
2003	289	23	120	785.506	-1068.610	D	0.055	23.221	23.276	0.24	0.012	0.040	0.002
0.000	0.000	0.001	0.000	3.920	2.820	3.990							
2003	290	23	120	785.506	-1068.610	D	0.122	23.221	23.343	0.52	0.010	0.109	0.001
0.000	0.000	0.001	0.000	3.920	2.820	3.990							
2003	291	23	81	777.710	-1118.013	D	0.000	23.221	23.221	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.920	2.820	3.990							
2003	292	23	81	777.710	-1118.013	D	0.000	23.221	23.221	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.920	2.820	3.990							
2003	293	23	120	785.506	-1068.610	D	0.446	23.221	23.668	1.92	0.124	0.289	0.017
0.003	0.005	0.008	0.000	3.920	2.820	3.990							
2003	294	23	81	777.710	-1118.013	D	0.229	23.221	23.451	0.99	0.017	0.202	0.005
0.001	0.001	0.002	0.001	3.920	2.820	3.990							
2003	295	23	87	789.783	-1098.197	D	0.078	23.221	23.300	0.34	0.004	0.072	0.001
0.000	0.000	0.001	0.000	3.920	2.820	3.990							
2003	296	23	81	777.710	-1118.013	D	0.000	23.221	23.221	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.920	2.820	3.990							
2003	297	23	81	777.710	-1118.013	D	0.000	23.221	23.221	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.920	2.820	3.990							
2003	298	23	120	785.506	-1068.610	D	0.001	23.221	23.222	0.00	0.000	0.001	0.000
0.000	0.000	0.000	0.000	3.920	2.820	3.990							
2003	299	23	81	777.710	-1118.013	D	0.120	23.221	23.342	0.52	0.013	0.106	0.000
0.000	0.000	0.000	0.001	3.920	2.820	3.990							
2003	300	23	120	785.506	-1068.610	D	0.041	23.221	23.262	0.18	0.004	0.037	0.001
0.000	0.000	0.000	0.000	3.920	2.820	3.990							
2003	301	23	120	785.506	-1068.610	D	0.560	23.221	23.781	2.41	0.077	0.463	0.010
0.002	0.003	0.005	0.000	3.920	2.820	3.990							
2003	302	23	120	785.506	-1068.610	D	0.000	23.221	23.222	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.920	2.820	3.990							
2003	303	23	81	777.710	-1118.013	D	0.000	23.221	23.221	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.920	2.820	3.990							
2003	304	23	81	777.710	-1118.013	D	0.000	23.221	23.221	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.920	2.820	3.990							
2003	305	23	81	777.710	-1118.013	D	0.000	23.235	23.235	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.930	2.830	4.010							
2003	306	23	81	777.710	-1118.013	D	0.000	23.235	23.235	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.930	2.830	4.010							
2003	307	23	81	777.710	-1118.013	D	0.000	23.235	23.235	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.930	2.830	4.010							
2003	308	23	81	777.710	-1118.013	D	0.000	23.235	23.235	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.930	2.830	4.010							
2003	309	23	120	785.506	-1068.610	D	0.339	23.235	23.575	1.46	0.081	0.239	0.010
0.002	0.003	0.005	0.000	3.930	2.830	4.010							
2003	310	23	87	789.783	-1098.197	D	0.439	23.235	23.674	1.89	0.055	0.372	0.006
0.001	0.002	0.003	0.000	3.930	2.830	4.010							
2003	311	23	87	789.783	-1098.197	D	0.012	23.235	23.247	0.05	0.001	0.010	0.000
0.000	0.000	0.000	0.000	3.930	2.830	4.010							
2003	312	23	81	777.710	-1118.013	D	0.000	23.235	23.235	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.930	2.830	4.010							
2003	313	23	81	777.710	-1118.013	D	0.000	23.235	23.235	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.930	2.830	4.010							
2003	314	23	81	777.710	-1118.013	D	0.000	23.235	23.235	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.930	2.830	4.010							

2003	315	23	81	777.710	-1118.013	D	0.000	23.235	23.235	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.930	2.830	4.010							
2003	316	23	120	785.506	-1068.610	D	0.094	23.235	23.329	0.40	0.004	0.086	0.001
0.000	0.000	0.001	0.001	3.930	2.830	4.010							
2003	317	23	81	777.710	-1118.013	D	0.000	23.235	23.235	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.930	2.830	4.010							
2003	318	23	81	777.710	-1118.013	D	0.000	23.235	23.235	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.930	2.830	4.010							
2003	319	23	81	777.710	-1118.013	D	0.000	23.235	23.235	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.930	2.830	4.010							
2003	320	23	81	777.710	-1118.013	D	0.000	23.235	23.235	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.930	2.830	4.010							
2003	321	23	81	777.710	-1118.013	D	0.000	23.235	23.235	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.930	2.830	4.010							
2003	322	23	87	789.783	-1098.197	D	0.036	23.235	23.271	0.15	0.000	0.032	0.001
0.000	0.000	0.000	0.002	3.930	2.830	4.010							
2003	323	23	81	777.710	-1118.013	D	0.000	23.235	23.235	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.930	2.830	4.010							
2003	324	23	81	777.710	-1118.013	D	0.000	23.235	23.235	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.930	2.830	4.010							
2003	325	23	81	777.710	-1118.013	D	0.000	23.235	23.235	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.930	2.830	4.010							
2003	326	23	81	777.710	-1118.013	D	0.000	23.235	23.235	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.930	2.830	4.010							
2003	327	23	120	785.506	-1068.610	D	0.018	23.235	23.253	0.08	0.000	0.016	0.000
0.000	0.000	0.000	0.002	3.930	2.830	4.010							
2003	328	23	81	777.710	-1118.013	D	0.000	23.235	23.235	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.930	2.830	4.010							
2003	329	23	81	777.710	-1118.013	D	0.000	23.235	23.235	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.930	2.830	4.010							
2003	330	23	81	777.710	-1118.013	D	0.000	23.235	23.235	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.930	2.830	4.010							
2003	331	23	120	785.506	-1068.610	D	0.081	23.235	23.316	0.35	0.003	0.074	0.000
0.000	0.000	0.000	0.004	3.930	2.830	4.010							
2003	332	23	81	777.710	-1118.013	D	0.000	23.235	23.235	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.930	2.830	4.010							
2003	333	23	81	777.710	-1118.013	D	0.000	23.235	23.235	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	3.930	2.830	4.010							
2003	334	23	120	785.506	-1068.610	D	0.053	23.235	23.288	0.23	0.008	0.043	0.001
0.000	0.000	0.001	0.000	3.930	2.830	4.010							
2003	335	23	81	777.710	-1118.013	D	0.006	23.365	23.371	0.02	0.001	0.005	0.000
0.000	0.000	0.000	0.000	4.060	2.900	4.110							
2003	336	23	81	777.710	-1118.013	D	0.000	23.365	23.365	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.060	2.900	4.110							
2003	337	23	81	777.710	-1118.013	D	0.118	23.365	23.483	0.51	0.013	0.103	0.001
0.000	0.000	0.001	0.000	4.060	2.900	4.110							
2003	338	23	81	777.710	-1118.013	D	0.112	23.365	23.477	0.48	0.012	0.097	0.001
0.000	0.000	0.001	0.000	4.060	2.900	4.110							
2003	339	23	81	777.710	-1118.013	D	0.000	23.365	23.365	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.060	2.900	4.110							
2003	340	23	81	777.710	-1118.013	D	0.000	23.365	23.365	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.060	2.900	4.110							
2003	341	23	81	777.710	-1118.013	D	0.000	23.365	23.365	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.060	2.900	4.110							
2003	342	23	81	777.710	-1118.013	D	0.000	23.365	23.365	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.060	2.900	4.110							

2003	343	23	120	785.506	-1068.610	D	0.165	23.365	23.530	0.71	0.009	0.144	0.004
0.001	0.001	0.002	0.004	4.060	2.900	4.110							
2003	344	23	81	777.710	-1118.013	D	0.000	23.365	23.365	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.060	2.900	4.110							
2003	345	23	81	777.710	-1118.013	D	0.000	23.365	23.365	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.060	2.900	4.110							
2003	346	23	81	777.710	-1118.013	D	0.000	23.365	23.365	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.060	2.900	4.110							
2003	347	23	81	777.710	-1118.013	D	0.000	23.365	23.365	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.060	2.900	4.110							
2003	348	23	81	777.710	-1118.013	D	0.000	23.365	23.365	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.060	2.900	4.110							
2003	349	23	120	785.506	-1068.610	D	0.039	23.365	23.404	0.17	0.005	0.032	0.001
0.000	0.000	0.001	0.001	4.060	2.900	4.110							
2003	350	23	81	777.710	-1118.013	D	0.001	23.365	23.366	0.01	0.000	0.001	0.000
0.000	0.000	0.000	0.000	4.060	2.900	4.110							
2003	351	23	120	785.506	-1068.610	D	0.246	23.365	23.610	1.05	0.017	0.218	0.005
0.001	0.001	0.002	0.001	4.060	2.900	4.110							
2003	352	23	81	777.710	-1118.013	D	0.000	23.365	23.365	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.060	2.900	4.110							
2003	353	23	81	777.710	-1118.013	D	0.000	23.365	23.365	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.060	2.900	4.110							
2003	354	23	81	777.710	-1118.013	D	0.000	23.365	23.365	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.060	2.900	4.110							
2003	355	23	81	777.710	-1118.013	D	0.000	23.365	23.365	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.060	2.900	4.110							
2003	356	23	117	788.168	-1071.180	D	0.114	23.365	23.479	0.49	0.010	0.102	0.001
0.000	0.000	0.000	0.002	4.060	2.900	4.110							
2003	357	23	104	792.307	-1081.109	D	0.027	23.365	23.391	0.11	0.002	0.024	0.000
0.000	0.000	0.000	0.001	4.060	2.900	4.110							
2003	358	23	81	777.710	-1118.013	D	0.000	23.365	23.365	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.060	2.900	4.110							
2003	359	23	81	777.710	-1118.013	D	0.000	23.365	23.365	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.060	2.900	4.110							
2003	360	23	81	777.710	-1118.013	D	0.000	23.365	23.365	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.060	2.900	4.110							
2003	361	23	81	777.710	-1118.013	D	0.000	23.365	23.365	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.060	2.900	4.110							
2003	362	23	81	777.710	-1118.013	D	0.053	23.365	23.418	0.23	0.003	0.050	0.000
0.000	0.000	0.000	0.001	4.060	2.900	4.110							
2003	363	23	88	791.229	-1096.193	D	0.001	23.365	23.366	0.00	0.000	0.001	0.000
0.000	0.000	0.000	0.000	4.060	2.900	4.110							

--- Ranked Daily Visibility Change ---

START TIME	Modeled Extinction by Species																							
Small	Large	SSalt	YEAR	DAY	HR	RECEPTOR	COORDINATES (km)	TYPE	BEXT(Model)	BEXT(BKG)	BEXT(Total)	%CHANGE	bxSO ₄	bxNO ₃	bxOC	bxEC	bxPMC	bxPMF	bxNO ₂	F(RH)	F(RH)	F(RH)		
2003	31	23	120	785.506	-1068.610	D	1.093	23.376	24.469	4.68	0.157	0.904	0.013	0.002	0.004	0.006	0.006	4.080	2.910	4.100	1			
2003	18	23	120	785.506	-1068.610	D	1.013	23.376	24.390	4.33	0.042	0.945	0.011	0.002	0.003	0.005	0.005	4.080	2.910	4.100	2			
2003	7	23	86	789.227	-1101.058	D	0.934	23.376	24.311	4.00	0.037	0.876	0.009	0.002	0.003	0.005	0.003	4.080	2.910	4.100	3			
2003	21	23	86	789.227	-1101.058	D	0.775	23.376	24.151	3.31	0.091	0.654	0.011											

0.002	0.003	0.005	0.009	4.080	2.910	4.100	4						
2003	301	23	120	785.506	-1068.610	D	0.560	23.221	23.781	2.41	0.077	0.463	0.010
0.002	0.003	0.005	0.000	3.920	2.820	3.990	5						
2003	81	23	81	777.710	-1118.013	D	0.555	23.085	23.641	2.41	0.077	0.462	0.008
0.002	0.002	0.004	0.000	3.790	2.740	3.870	6						
2003	293	23	120	785.506	-1068.610	D	0.446	23.221	23.668	1.92	0.124	0.289	0.017
0.003	0.005	0.008	0.000	3.920	2.820	3.990	7						
2003	310	23	87	789.783	-1098.197	D	0.439	23.235	23.674	1.89	0.055	0.372	0.006
0.001	0.002	0.003	0.000	3.930	2.830	4.010	8						
2003	79	23	86	789.227	-1101.058	D	0.432	23.085	23.517	1.87	0.043	0.362	0.011
0.002	0.003	0.006	0.005	3.790	2.740	3.870	9						
2003	4	23	81	777.710	-1118.013	D	0.421	23.376	23.797	1.80	0.021	0.394	0.003
0.001	0.001	0.002	0.000	4.080	2.910	4.100	10						
2003	40	23	81	777.710	-1118.013	D	0.402	23.114	23.516	1.74	0.028	0.357	0.003
0.001	0.001	0.002	0.009	3.820	2.760	3.890	11						
2003	73	23	120	785.506	-1068.610	D	0.357	23.085	23.443	1.55	0.039	0.315	0.002
0.000	0.000	0.001	0.000	3.790	2.740	3.870	12						
2003	309	23	120	785.506	-1068.610	D	0.339	23.235	23.575	1.46	0.081	0.239	0.010
0.002	0.003	0.005	0.000	3.930	2.830	4.010	13						
2002	365	23	120	785.506	-1068.610	D	0.291	23.365	23.655	1.24	0.017	0.268	0.002
0.000	0.001	0.001	0.002	4.060	2.900	4.110	14						
2003	82	23	81	777.710	-1118.013	D	0.273	23.085	23.359	1.18	0.026	0.241	0.003
0.001	0.001	0.002	0.000	3.790	2.740	3.870	15						
2003	351	23	120	785.506	-1068.610	D	0.246	23.365	23.610	1.05	0.017	0.218	0.005
0.001	0.001	0.002	0.001	4.060	2.900	4.110	16						
2003	102	23	81	777.710	-1118.013	D	0.236	23.042	23.278	1.03	0.045	0.185	0.003
0.001	0.001	0.002	0.000	3.740	2.720	3.850	17						
2003	294	23	81	777.710	-1118.013	D	0.229	23.221	23.451	0.99	0.017	0.202	0.005
0.001	0.001	0.002	0.001	3.920	2.820	3.990	18						
2003	80	23	120	785.506	-1068.610	D	0.223	23.085	23.309	0.97	0.024	0.192	0.004
0.001	0.001	0.002	0.000	3.790	2.740	3.870	19						
2003	17	23	81	777.710	-1118.013	D	0.196	23.376	23.572	0.84	0.009	0.184	0.001
0.000	0.000	0.001	0.000	4.080	2.910	4.100	20						
2003	200	23	120	785.506	-1068.610	D	0.197	23.733	23.930	0.83	0.122	0.065	0.005
0.001	0.001	0.003	0.000	4.410	3.100	4.440	21						
2003	32	23	87	789.783	-1098.197	D	0.188	23.114	23.303	0.81	0.025	0.159	0.002
0.000	0.001	0.001	0.000	3.820	2.760	3.890	22						

--- Number of days with Extinction Change => 5.0 % : 0

--- Number of days with Extinction Change => 10.0 % : 0

--- Largest Extinction Change = 4.68 %

CALPOST Version 6.221 Level 080724

Run-Length VISIBILITY

VISIB BOESNCFG

(1/Mega-m)

RECEPTOR COORDINATES (km) TYPE BEXT(Model) BEXT(BKG) BEXT(Total) %CHANGE

107 790.446 -1078.467 D 0.032 23.339 23.370 0.14

--- Number of recs with Extinction Change > 1.0 % : 0

--- Largest Extinction Change = 0.14 %

CALPOST Version 6.221 Level 080724

24HR VISIBILITY

VISIB BOESNCFG

(deciview)

START TIME

% of Modeled Extinction by Species

Small Large SSalt

YEAR	DAY	HR	RECEPTOR	COORDINATES (km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_NO2	F(RH)	F(RH)	F(RH)
2002	365	23	120	785.506 -1068.610	D	8.610	8.486	0.124	5.78	92.15	0.76	0.14	0.21	0.38	0.57	4.060	2.900	4.110
2003	1	23	117	788.168 -1071.180	D	8.524	8.491	0.033	6.57	87.35	2.03	0.39	0.57	1.00	2.09	4.080	2.910	4.100
2003	2	23	81	777.710 -1118.013	D	8.491	8.491	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.080	2.910	4.100
2003	3	23	81	777.710 -1118.013	D	8.500	8.491	0.008	4.81	93.65	0.75	0.14	0.21	0.37	0.05	4.080	2.910	4.100
2003	4	23	81	777.710 -1118.013	D	8.670	8.491	0.178	4.99	93.52	0.72	0.14	0.20	0.36	0.07	4.080	2.910	4.100
2003	5	23	120	785.506 -1068.610	D	8.553	8.491	0.062	5.95	91.73	1.14	0.22	0.32	0.57	0.08	4.080	2.910	4.100
2003	6	23	81	777.710 -1118.013	D	8.491	8.491	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.080	2.910	4.100
2003	7	23	86	789.227 -1101.058	D	8.883	8.491	0.392	3.94	93.74	1.00	0.19	0.28	0.49	0.37	4.080	2.910	4.100
2003	8	23	81	777.710 -1118.013	D	8.491	8.491	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.080	2.910	4.100
2003	9	23	81	777.710 -1118.013	D	8.515	8.491	0.024	5.08	91.84	1.15	0.22	0.32	0.57	0.83	4.080	2.910	4.100
2003	10	23	81	777.710 -1118.013	D	8.491	8.491	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.080	2.910	4.100
2003	11	23	81	777.710 -1118.013	D	8.491	8.491	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.080	2.910	4.100
2003	12	23	81	777.710 -1118.013	D	8.491	8.491	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.080	2.910	4.100

2003	13	23	81	777.710	-1118.013	D	8.491	8.491	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.080	2.910	4.100											
2003	14	23	81	777.710	-1118.013	D	8.491	8.491	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.080	2.910	4.100											
2003	15	23	81	777.710	-1118.013	D	8.508	8.491	0.017	3.99	91.55	1.64	0.31	0.46	
0.81	1.23	4.080	2.910	4.100											
2003	16	23	81	777.710	-1118.013	D	8.491	8.491	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.080	2.910	4.100											
2003	17	23	81	777.710	-1118.013	D	8.575	8.491	0.083	4.42	94.10	0.74	0.14	0.21	
0.36	0.03	4.080	2.910	4.100											
2003	18	23	120	785.506	-1068.610	D	8.916	8.491	0.424	4.15	93.26	1.06	0.20	0.30	
0.53	0.50	4.080	2.910	4.100											
2003	19	23	81	777.710	-1118.013	D	8.491	8.491	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.080	2.910	4.100											
2003	20	23	81	777.710	-1118.013	D	8.491	8.491	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.080	2.910	4.100											
2003	21	23	86	789.227	-1101.058	D	8.818	8.491	0.326	11.76	84.45	1.36	0.26	0.38	
0.67	1.13	4.080	2.910	4.100											
2003	22	23	81	777.710	-1118.013	D	8.491	8.491	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.080	2.910	4.100											
2003	23	23	81	777.710	-1118.013	D	8.491	8.491	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.080	2.910	4.100											
2003	24	23	81	777.710	-1118.013	D	8.491	8.491	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.080	2.910	4.100											
2003	25	23	81	777.710	-1118.013	D	8.491	8.491	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.080	2.910	4.100											
2003	26	23	81	777.710	-1118.013	D	8.491	8.491	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.080	2.910	4.100											
2003	27	23	81	777.710	-1118.013	D	8.491	8.491	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.080	2.910	4.100											
2003	28	23	81	777.710	-1118.013	D	8.491	8.491	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.080	2.910	4.100											
2003	29	23	81	777.710	-1118.013	D	8.515	8.491	0.023	1.26	95.57	0.00	0.00	0.00	
0.00	3.16	4.080	2.910	4.100											
2003	30	23	120	785.506	-1068.610	D	8.493	8.491	0.002	7.87	90.01	0.62	0.12	0.17	
0.31	0.88	4.080	2.910	4.100											
2003	31	23	120	785.506	-1068.610	D	8.948	8.491	0.457	14.35	82.75	1.18	0.22		
0.33	0.58	0.58	4.080	2.910	4.100										
2003	32	23	87	789.783	-1098.197	D	8.460	8.379	0.081	13.52	84.50	1.00	0.19	0.28	
0.49	0.02	3.820	2.760	3.890											
2003	33	23	81	777.710	-1118.013	D	8.379	8.379	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.820	2.760	3.890											
2003	34	23	120	785.506	-1068.610	D	8.390	8.379	0.012	2.34	89.31	1.56	0.30	0.44	
0.77	5.29	3.820	2.760	3.890											
2003	35	23	81	777.710	-1118.013	D	8.379	8.379	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.820	2.760	3.890											
2003	36	23	81	777.710	-1118.013	D	8.379	8.379	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.820	2.760	3.890											
2003	37	23	81	777.710	-1118.013	D	8.379	8.379	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.820	2.760	3.890											
2003	38	23	81	777.710	-1118.013	D	8.379	8.379	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.820	2.760	3.890											
2003	39	23	81	777.710	-1118.013	D	8.379	8.379	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.820	2.760	3.890											
2003	40	23	81	777.710	-1118.013	D	8.551	8.379	0.172	7.00	88.99	0.85	0.16	0.24	
0.42	2.33	3.820	2.760	3.890											

2003	41	23	120	785.506	-1068.610	D	8.409	8.379	0.030	12.23	87.26	0.23	0.04	
0.06	0.11	0.06	3.820	2.760	3.890									
2003	42	23	120	785.506	-1068.610	D	8.416	8.379	0.037	16.00	81.27	1.39	0.26	
0.39	0.68	0.00	3.820	2.760	3.890									
2003	43	23	120	785.506	-1068.610	D	8.436	8.379	0.057	14.59	82.69	1.38	0.26	
0.39	0.68	0.00	3.820	2.760	3.890									
2003	44	23	119	786.393	-1069.467	D	8.379	8.379	0.000	21.52	75.28	1.58	0.30	
0.44	0.77	0.00	3.820	2.760	3.890									
2003	45	23	81	777.710	-1118.013	D	8.379	8.379	0.000	0.00	0.00	0.00	0.00	
0.00	0.00	3.820	2.760	3.890										
2003	46	23	120	785.506	-1068.610	D	8.457	8.379	0.079	6.40	90.59	0.38	0.07	0.11
0.19	2.27	3.820	2.760	3.890										
2003	47	23	81	777.710	-1118.013	D	8.388	8.379	0.009	5.40	91.93	1.03	0.19	0.29
0.51	0.66	3.820	2.760	3.890										
2003	48	23	81	777.710	-1118.013	D	8.379	8.379	0.001	8.36	89.16	1.20	0.23	0.33
0.59	0.10	3.820	2.760	3.890										
2003	49	23	120	785.506	-1068.610	D	8.379	8.379	0.000	9.62	88.02	1.09	0.20	0.30
0.52	0.01	3.820	2.760	3.890										
2003	50	23	81	777.710	-1118.013	D	8.379	8.379	0.000	0.00	0.00	0.00	0.00	
0.00	0.00	3.820	2.760	3.890										
2003	51	23	81	777.710	-1118.013	D	8.379	8.379	0.000	0.00	0.00	0.00	0.00	
0.00	0.00	3.820	2.760	3.890										
2003	52	23	87	789.783	-1098.197	D	8.397	8.379	0.018	10.87	83.81	1.81	0.34	0.51
0.89	1.77	3.820	2.760	3.890										
2003	53	23	81	777.710	-1118.013	D	8.379	8.379	0.000	0.00	0.00	0.00	0.00	
0.00	0.00	3.820	2.760	3.890										
2003	54	23	120	785.506	-1068.610	D	8.379	8.379	0.000	7.22	90.39	1.25	0.24	0.35
0.61	0.02	3.820	2.760	3.890										
2003	55	23	120	785.506	-1068.610	D	8.382	8.379	0.003	10.52	87.01	1.26	0.24	
0.35	0.62	0.01	3.820	2.760	3.890									
2003	56	23	120	785.506	-1068.610	D	8.379	8.379	0.000	8.94	89.32	0.89	0.17	0.25
0.44	0.00	3.820	2.760	3.890										
2003	57	23	81	777.710	-1118.013	D	8.379	8.379	0.000	31.01	67.73	0.70	0.13	0.19
0.33	0.02	3.820	2.760	3.890										
2003	58	23	120	785.506	-1068.610	D	8.379	8.379	0.000	41.01	58.16	0.50	0.11	
0.16	0.28	0.02	3.820	2.760	3.890									
2003	59	23	120	785.506	-1068.610	D	8.379	8.379	0.000	49.23	49.30	0.56	0.09	
0.13	0.23	0.01	3.820	2.760	3.890									
2003	60	23	81	777.710	-1118.013	D	8.368	8.366	0.001	5.81	89.39	1.24	0.24	0.35
0.62	2.37	3.790	2.740	3.870										
2003	61	23	81	777.710	-1118.013	D	8.366	8.366	0.000	0.00	0.00	0.00	0.00	
0.00	0.00	3.790	2.740	3.870										
2003	62	23	81	777.710	-1118.013	D	8.366	8.366	0.000	0.00	0.00	0.00	0.00	
0.00	0.00	3.790	2.740	3.870										
2003	63	23	81	777.710	-1118.013	D	8.366	8.366	0.000	0.00	0.00	0.00	0.00	
0.00	0.00	3.790	2.740	3.870										
2003	64	23	120	785.506	-1068.610	D	8.369	8.366	0.003	2.28	93.75	0.01	0.00	0.00
0.00	3.96	3.790	2.740	3.870										
2003	65	23	81	777.710	-1118.013	D	8.366	8.366	0.000	0.00	75.00	0.00	0.00	
0.00	10.49	3.790	2.740	3.870										
2003	66	23	81	777.710	-1118.013	D	8.366	8.366	0.000	0.00	0.00	0.00	0.00	
0.00	0.00	3.790	2.740	3.870										
2003	67	23	120	785.506	-1068.610	D	8.367	8.366	0.001	24.16	71.60	2.14	0.41	
0.60	1.07	0.00	3.790	2.740	3.870									
2003	68	23	81	777.710	-1118.013	D	8.370	8.366	0.004	28.94	66.51	2.31	0.44	0.65
1.14	0.00	3.790	2.740	3.870										

2003	69	23	120	785.506	-1068.610	D	8.370	8.366	0.004	35.37	59.72	2.50	0.47
0.70	1.24	0.00	3.790	2.740	3.870								
2003	70	23	120	785.506	-1068.610	D	8.366	8.366	0.000	30.56	65.57	2.06	0.38
0.56	0.98	0.00	3.790	2.740	3.870								
2003	71	23	81	777.710	-1118.013	D	8.366	8.366	0.000	0.00	0.00	0.00	0.00
0.00	0.00	3.790	2.740	3.870									
2003	72	23	120	785.506	-1068.610	D	8.401	8.366	0.035	10.98	88.18	0.35	0.07
0.10	0.17	0.15	3.790	2.740	3.870								
2003	73	23	120	785.506	-1068.610	D	8.520	8.366	0.154	10.86	88.17	0.47	0.09
0.13	0.23	0.04	3.790	2.740	3.870								
2003	74	23	120	785.506	-1068.610	D	8.413	8.366	0.046	13.44	85.38	0.60	0.11
0.17	0.30	0.00	3.790	2.740	3.870								
2003	75	23	120	785.506	-1068.610	D	8.366	8.366	0.000	26.54	72.09	0.58	0.09
0.13	0.23	0.00	3.790	2.740	3.870								
2003	76	23	114	789.223	-1073.895	D	8.366	8.366	0.000	18.75	68.75	0.00	0.07
0.10	0.18	0.00	3.790	2.740	3.870								
2003	77	23	81	777.710	-1118.013	D	8.366	8.366	0.000	0.00	0.00	0.00	0.00
0.00	0.00	3.790	2.740	3.870									
2003	78	23	81	777.710	-1118.013	D	8.366	8.366	0.000	0.00	0.00	0.00	0.00
0.00	0.00	3.790	2.740	3.870									
2003	79	23	86	789.227	-1101.058	D	8.551	8.366	0.185	9.86	83.83	2.64	0.50
1.30	1.14	3.790	2.740	3.870									
2003	80	23	120	785.506	-1068.610	D	8.462	8.366	0.096	10.84	85.78	1.71	0.32
0.48	0.84	0.02	3.790	2.740	3.870								
2003	81	23	81	777.710	-1118.013	D	8.604	8.366	0.238	13.79	83.22	1.52	0.29
0.75	0.00	3.790	2.740	3.870									
2003	82	23	81	777.710	-1118.013	D	8.484	8.366	0.118	9.67	88.08	1.15	0.22
0.57	0.00	3.790	2.740	3.870									
2003	83	23	120	785.506	-1068.610	D	8.369	8.366	0.003	12.63	85.20	1.10	0.21
0.31	0.54	0.00	3.790	2.740	3.870								
2003	84	23	81	777.710	-1118.013	D	8.366	8.366	0.000	0.00	0.00	0.00	0.00
0.00	0.00	3.790	2.740	3.870									
2003	85	23	81	777.710	-1118.013	D	8.366	8.366	0.000	0.00	0.00	0.00	0.00
0.00	0.00	3.790	2.740	3.870									
2003	86	23	81	777.710	-1118.013	D	8.366	8.366	0.000	0.00	0.00	0.00	0.00
0.00	0.00	3.790	2.740	3.870									
2003	87	23	120	785.506	-1068.610	D	8.382	8.366	0.016	15.24	79.12	2.68	0.51
0.75	1.32	0.37	3.790	2.740	3.870								
2003	88	23	81	777.710	-1118.013	D	8.366	8.366	0.000	0.00	0.00	0.00	0.00
0.00	0.00	3.790	2.740	3.870									
2003	89	23	85	785.607	-1106.067	D	8.375	8.366	0.009	7.16	91.03	0.92	0.17
0.46	0.00	3.790	2.740	3.870									
2003	90	23	120	785.506	-1068.610	D	8.399	8.366	0.033	7.35	90.96	0.86	0.16
0.43	0.00	3.790	2.740	3.870									
2003	91	23	81	777.710	-1118.013	D	8.347	8.347	0.000	0.00	0.00	0.00	0.00
0.00	0.00	3.740	2.720	3.850									
2003	92	23	81	777.710	-1118.013	D	8.347	8.347	0.000	0.00	0.00	0.00	0.00
0.00	0.00	3.740	2.720	3.850									
2003	93	23	81	777.710	-1118.013	D	8.347	8.347	0.000	0.00	0.00	0.00	0.00
0.00	0.00	3.740	2.720	3.850									
2003	94	23	81	777.710	-1118.013	D	8.347	8.347	0.000	0.00	0.00	0.00	0.00
0.00	0.00	3.740	2.720	3.850									
2003	95	23	81	777.710	-1118.013	D	8.347	8.347	0.000	0.00	0.00	0.00	0.00
0.00	0.00	3.740	2.720	3.850									
2003	96	23	81	777.710	-1118.013	D	8.347	8.347	0.000	0.00	0.00	0.00	0.00
0.00	0.00	3.740	2.720	3.850									

2003	97	23	120	785.506	-1068.610	D	8.362	8.347	0.015	12.52	86.68	0.40	0.07	
0.11	0.19	0.02	3.740	2.720	3.850									
2003	98	23	88	791.229	-1096.193	D	8.352	8.347	0.005	12.80	86.36	0.42	0.08	0.12
0.21	0.01	3.740	2.720	3.850										
2003	99	23	81	777.710	-1118.013	D	8.347	8.347	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.740	2.720	3.850										
2003	100	23	81	777.710	-1118.013	D	8.347	8.347	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.740	2.720	3.850										
2003	101	23	81	777.710	-1118.013	D	8.361	8.347	0.014	23.40	73.10	1.78	0.34	
0.50	0.88	0.00	3.740	2.720	3.850									
2003	102	23	81	777.710	-1118.013	D	8.449	8.347	0.102	19.14	78.10	1.41	0.27	
0.39	0.69	0.00	3.740	2.720	3.850									
2003	103	23	120	785.506	-1068.610	D	8.375	8.347	0.028	28.10	68.59	1.69	0.32	
0.47	0.83	0.00	3.740	2.720	3.850									
2003	104	23	120	785.506	-1068.610	D	8.348	8.347	0.001	21.81	75.99	1.12	0.21	
0.31	0.55	0.00	3.740	2.720	3.850									
2003	105	23	81	777.710	-1118.013	D	8.347	8.347	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.740	2.720	3.850										
2003	106	23	86	789.227	-1101.058	D	8.371	8.347	0.024	12.36	83.82	1.95	0.37	
0.54	0.96	0.00	3.740	2.720	3.850									
2003	107	23	81	777.710	-1118.013	D	8.406	8.347	0.059	8.95	88.40	1.35	0.26	0.38
0.67	0.00	3.740	2.720	3.850										
2003	108	23	120	785.506	-1068.610	D	8.347	8.347	0.000	17.39	79.47	1.52	0.29	
0.43	0.76	0.00	3.740	2.720	3.850									
2003	109	23	81	777.710	-1118.013	D	8.347	8.347	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.740	2.720	3.850										
2003	110	23	116	788.252	-1072.109	D	8.366	8.347	0.019	32.75	57.52	4.87	0.92	
1.36	2.41	0.16	3.740	2.720	3.850									
2003	111	23	87	789.783	-1098.197	D	8.371	8.347	0.024	13.25	83.53	1.63	0.31	
0.46	0.81	0.02	3.740	2.720	3.850									
2003	112	23	81	777.710	-1118.013	D	8.348	8.347	0.001	12.21	85.29	1.31	0.25	
0.37	0.65	0.00	3.740	2.720	3.850									
2003	113	23	81	777.710	-1118.013	D	8.347	8.347	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.740	2.720	3.850										
2003	114	23	120	785.506	-1068.610	D	8.374	8.347	0.027	11.23	85.66	1.58	0.30	
0.44	0.78	0.00	3.740	2.720	3.850									
2003	115	23	87	789.783	-1098.197	D	8.414	8.347	0.067	7.26	90.59	1.09	0.21	0.31
0.54	0.00	3.740	2.720	3.850										
2003	116	23	81	777.710	-1118.013	D	8.347	8.347	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.740	2.720	3.850										
2003	117	23	81	777.710	-1118.013	D	8.347	8.347	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.740	2.720	3.850										
2003	118	23	81	777.710	-1118.013	D	8.347	8.347	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.740	2.720	3.850										
2003	119	23	81	777.710	-1118.013	D	8.347	8.347	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.740	2.720	3.850										
2003	120	23	81	777.710	-1118.013	D	8.347	8.347	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.740	2.720	3.850										
2003	121	23	81	777.710	-1118.013	D	8.435	8.435	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.940	2.830	4.020										
2003	122	23	81	777.710	-1118.013	D	8.435	8.435	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.940	2.830	4.020										
2003	123	23	81	777.710	-1118.013	D	8.435	8.435	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.940	2.830	4.020										
2003	124	23	81	777.710	-1118.013	D	8.435	8.435	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.940	2.830	4.020										

2003	125	23	81	777.710	-1118.013	D	8.435	8.435	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.940	2.830	4.020											
2003	126	23	81	777.710	-1118.013	D	8.435	8.435	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.940	2.830	4.020											
2003	127	23	81	777.710	-1118.013	D	8.435	8.435	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.940	2.830	4.020											
2003	128	23	81	777.710	-1118.013	D	8.435	8.435	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.940	2.830	4.020											
2003	129	23	81	777.710	-1118.013	D	8.435	8.435	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.940	2.830	4.020											
2003	130	23	81	777.710	-1118.013	D	8.435	8.435	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.940	2.830	4.020											
2003	131	23	120	785.506	-1068.610	D	8.442	8.435	0.006	37.62	58.90	1.77	0.34		
0.49	0.87	0.00	3.940	2.830	4.020										
2003	132	23	81	777.710	-1118.013	D	8.436	8.435	0.001	35.39	62.16	1.25	0.24		
0.35	0.62	0.00	3.940	2.830	4.020										
2003	133	23	120	785.506	-1068.610	D	8.436	8.435	0.000	26.00	72.29	0.67	0.13		
0.20	0.35	0.00	3.940	2.830	4.020										
2003	134	23	81	777.710	-1118.013	D	8.435	8.435	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.940	2.830	4.020											
2003	135	23	81	777.710	-1118.013	D	8.435	8.435	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.940	2.830	4.020											
2003	136	23	81	777.710	-1118.013	D	8.435	8.435	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.940	2.830	4.020											
2003	137	23	120	785.506	-1068.610	D	8.436	8.435	0.001	51.36	39.92	4.44	0.84		
1.24	2.19	0.01	3.940	2.830	4.020										
2003	138	23	120	785.506	-1068.610	D	8.440	8.435	0.004	31.81	63.31	2.48	0.47		
0.69	1.23	0.00	3.940	2.830	4.020										
2003	139	23	120	785.506	-1068.610	D	8.437	8.435	0.001	35.69	60.74	1.81	0.34		
0.51	0.90	0.00	3.940	2.830	4.020										
2003	140	23	81	777.710	-1118.013	D	8.436	8.435	0.001	45.19	50.83	2.05	0.39		
0.58	1.02	0.00	3.940	2.830	4.020										
2003	141	23	81	777.710	-1118.013	D	8.435	8.435	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.940	2.830	4.020											
2003	142	23	81	777.710	-1118.013	D	8.435	8.435	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.940	2.830	4.020											
2003	143	23	81	777.710	-1118.013	D	8.435	8.435	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.940	2.830	4.020											
2003	144	23	120	785.506	-1068.610	D	8.437	8.435	0.001	41.90	53.27	2.47	0.47		
0.69	1.22	0.00	3.940	2.830	4.020										
2003	145	23	120	785.506	-1068.610	D	8.456	8.435	0.020	21.88	75.85	1.16	0.22		
0.32	0.57	0.00	3.940	2.830	4.020										
2003	146	23	120	785.506	-1068.610	D	8.436	8.435	0.000	21.59	77.04	0.61	0.11		
0.17	0.30	0.06	3.940	2.830	4.020										
2003	147	23	81	777.710	-1118.013	D	8.435	8.435	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.940	2.830	4.020											
2003	148	23	87	789.783	-1098.197	D	8.474	8.435	0.038	11.91	85.97	1.08	0.20		
0.30	0.53	0.00	3.940	2.830	4.020										
2003	149	23	87	789.783	-1098.197	D	8.509	8.435	0.073	32.34	62.47	2.64	0.50		
0.74	1.30	0.00	3.940	2.830	4.020										
2003	150	23	113	790.111	-1074.751	D	8.437	8.435	0.001	17.98	79.55	1.27	0.24		
0.35	0.62	0.00	3.940	2.830	4.020										
2003	151	23	120	785.506	-1068.610	D	8.439	8.435	0.004	61.38	28.52	5.14	0.97		
1.44	2.54	0.00	3.940	2.830	4.020										
2003	152	23	120	785.506	-1068.610	D	8.520	8.519	0.001	22.74	74.20	1.57	0.30		
0.44	0.78	0.00	4.120	2.940	4.210										

2003	153	23	81	777.710	-1118.013	D	8.519	8.519	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.120	2.940	4.210										
2003	154	23	120	785.506	-1068.610	D	8.524	8.519	0.005	55.61	36.98	3.78	0.72	
1.06	1.87	0.01	4.120	2.940	4.210									
2003	155	23	120	785.506	-1068.610	D	8.522	8.519	0.002	26.95	69.84	1.62	0.31	
0.46	0.81	0.00	4.120	2.940	4.210									
2003	156	23	81	777.710	-1118.013	D	8.519	8.519	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.120	2.940	4.210										
2003	157	23	120	785.506	-1068.610	D	8.521	8.519	0.002	19.44	79.06	0.76	0.14	
0.21	0.37	0.00	4.120	2.940	4.210									
2003	158	23	87	789.783	-1098.197	D	8.525	8.519	0.005	35.72	62.14	1.10	0.21	
0.31	0.54	0.00	4.120	2.940	4.210									
2003	159	23	120	785.506	-1068.610	D	8.523	8.519	0.003	46.84	51.00	1.11	0.21	
0.31	0.55	0.00	4.120	2.940	4.210									
2003	160	23	120	785.506	-1068.610	D	8.520	8.519	0.001	47.70	50.60	0.84	0.16	
0.24	0.43	0.00	4.120	2.940	4.210									
2003	161	23	81	777.710	-1118.013	D	8.519	8.519	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.120	2.940	4.210										
2003	162	23	81	777.710	-1118.013	D	8.519	8.519	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.120	2.940	4.210										
2003	163	23	81	777.710	-1118.013	D	8.519	8.519	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.120	2.940	4.210										
2003	164	23	81	777.710	-1118.013	D	8.519	8.519	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.120	2.940	4.210										
2003	165	23	81	777.710	-1118.013	D	8.519	8.519	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.120	2.940	4.210										
2003	166	23	81	777.710	-1118.013	D	8.519	8.519	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.120	2.940	4.210										
2003	167	23	81	777.710	-1118.013	D	8.519	8.519	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.120	2.940	4.210										
2003	168	23	81	777.710	-1118.013	D	8.519	8.519	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.120	2.940	4.210										
2003	169	23	114	789.223	-1073.895	D	8.519	8.519	0.000	46.88	46.88	0.00	0.00	
0.00	0.00	0.00	4.120	2.940	4.210									
2003	170	23	120	785.506	-1068.610	D	8.523	8.519	0.003	48.29	50.28	0.73	0.14	
0.20	0.36	0.00	4.120	2.940	4.210									
2003	171	23	120	785.506	-1068.610	D	8.521	8.519	0.002	45.97	52.76	0.64	0.12	
0.18	0.32	0.00	4.120	2.940	4.210									
2003	172	23	120	785.506	-1068.610	D	8.520	8.519	0.000	63.52	35.79	0.58	0.09	
0.13	0.23	0.00	4.120	2.940	4.210									
2003	173	23	116	788.252	-1072.109	D	8.519	8.519	0.000	72.92	19.27	0.00	0.03	
0.05	0.09	0.00	4.120	2.940	4.210									
2003	174	23	81	777.710	-1118.013	D	8.519	8.519	0.000	100.00	15.62	0.00	0.04	
0.06	0.10	0.00	4.120	2.940	4.210									
2003	175	23	81	777.710	-1118.013	D	8.519	8.519	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.120	2.940	4.210										
2003	176	23	81	777.710	-1118.013	D	8.519	8.519	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.120	2.940	4.210										
2003	177	23	120	785.506	-1068.610	D	8.520	8.519	0.000	79.67	19.93	0.17	0.03	
0.04	0.07	0.06	4.120	2.940	4.210									
2003	178	23	81	777.710	-1118.013	D	8.520	8.519	0.001	67.14	32.37	0.22	0.04	
0.06	0.11	0.02	4.120	2.940	4.210									
2003	179	23	81	777.710	-1118.013	D	8.519	8.519	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.120	2.940	4.210										
2003	180	23	81	777.710	-1118.013	D	8.519	8.519	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.120	2.940	4.210										

2003	181	23	81	777.710	-1118.013	D	8.519	8.519	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.120	2.940	4.210										
2003	182	23	81	777.710	-1118.013	D	8.645	8.643	0.002	15.19	82.82	1.01	0.19	
0.28	0.50	0.01	4.410	3.100	4.440									
2003	183	23	86	789.227	-1101.058	D	8.644	8.643	0.001	27.02	70.23	1.39	0.26	
0.39	0.69	0.00	4.410	3.100	4.440									
2003	184	23	120	785.506	-1068.610	D	8.643	8.643	0.000	28.14	69.85	1.05	0.21	
0.31	0.54	0.00	4.410	3.100	4.440									
2003	185	23	81	777.710	-1118.013	D	8.643	8.643	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.410	3.100	4.440										
2003	186	23	81	777.710	-1118.013	D	8.643	8.643	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.410	3.100	4.440										
2003	187	23	81	777.710	-1118.013	D	8.643	8.643	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.410	3.100	4.440										
2003	188	23	81	777.710	-1118.013	D	8.643	8.643	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.410	3.100	4.440										
2003	189	23	81	777.710	-1118.013	D	8.643	8.643	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.410	3.100	4.440										
2003	190	23	81	777.710	-1118.013	D	8.643	8.643	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.410	3.100	4.440										
2003	191	23	81	777.710	-1118.013	D	8.643	8.643	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.410	3.100	4.440										
2003	192	23	120	785.506	-1068.610	D	8.643	8.643	0.000	94.02	3.80	0.54	0.13	
0.19	0.33	0.08	4.410	3.100	4.440									
2003	193	23	120	785.506	-1068.610	D	8.643	8.643	0.000	77.48	21.60	0.55	0.08	
0.12	0.22	0.00	4.410	3.100	4.440									
2003	194	23	120	785.506	-1068.610	D	8.643	8.643	0.000	35.94	64.14	0.31	0.04	
0.06	0.11	0.00	4.410	3.100	4.440									
2003	195	23	120	785.506	-1068.610	D	8.643	8.643	0.000	37.50	18.75	0.00	0.03	
0.05	0.08	0.00	4.410	3.100	4.440									
2003	196	23	81	777.710	-1118.013	D	8.643	8.643	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.410	3.100	4.440										
2003	197	23	120	785.506	-1068.610	D	8.659	8.643	0.016	55.17	38.29	3.33	0.63	
0.93	1.64	0.01	4.410	3.100	4.440									
2003	198	23	120	785.506	-1068.610	D	8.664	8.643	0.021	32.25	65.50	1.14	0.22	
0.32	0.56	0.01	4.410	3.100	4.440									
2003	199	23	120	785.506	-1068.610	D	8.654	8.643	0.012	38.89	59.72	0.71	0.13	
0.20	0.35	0.00	4.410	3.100	4.440									
2003	200	23	120	785.506	-1068.610	D	8.726	8.643	0.083	61.75	33.04	2.61	0.49	
0.73	1.29	0.10	4.410	3.100	4.440									
2003	201	23	120	785.506	-1068.610	D	8.706	8.643	0.063	26.53	69.79	1.87	0.35	
0.52	0.92	0.01	4.410	3.100	4.440									
2003	202	23	87	789.783	-1098.197	D	8.643	8.643	0.000	67.36	31.25	1.39	0.24	
0.35	0.62	0.00	4.410	3.100	4.440									
2003	203	23	120	785.506	-1068.610	D	8.647	8.643	0.004	8.24	91.39	0.13	0.02	
0.04	0.06	0.13	4.410	3.100	4.440									
2003	204	23	120	785.506	-1068.610	D	8.666	8.643	0.023	13.49	85.92	0.24	0.05	
0.07	0.12	0.12	4.410	3.100	4.440									
2003	205	23	120	785.506	-1068.610	D	8.645	8.643	0.002	31.20	67.54	0.64	0.12	
0.18	0.32	0.00	4.410	3.100	4.440									
2003	206	23	120	785.506	-1068.610	D	8.643	8.643	0.000	33.75	65.19	0.62	0.12	
0.17	0.30	0.00	4.410	3.100	4.440									
2003	207	23	119	786.393	-1069.467	D	8.643	8.643	0.000	45.43	52.74	0.61	0.14	
0.21	0.36	0.00	4.410	3.100	4.440									
2003	208	23	120	785.506	-1068.610	D	8.643	8.643	0.000	31.03	64.66	2.16	0.41	
0.60	1.07	0.00	4.410	3.100	4.440									

2003	209	23	120	785.506	-1068.610	D	8.651	8.643	0.008	35.38	59.72	2.50	0.47
0.70	1.23	0.00	4.410	3.100	4.440								
2003	210	23	120	785.506	-1068.610	D	8.643	8.643	0.000	13.91	85.04	0.35	0.05
0.07	0.13	0.00	4.410	3.100	4.440								
2003	211	23	81	777.710	-1118.013	D	8.643	8.643	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.410	3.100	4.440									
2003	212	23	81	777.710	-1118.013	D	8.643	8.643	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.410	3.100	4.440									
2003	213	23	120	785.506	-1068.610	D	8.622	8.622	0.000	49.68	44.97	2.67	0.51
0.75	1.33	0.01	4.370	3.070	4.380								
2003	214	23	119	786.393	-1069.467	D	8.622	8.622	0.000	33.33	59.38	0.00	0.07
0.11	0.19	0.00	4.370	3.070	4.380								
2003	215	23	81	777.710	-1118.013	D	8.622	8.622	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.370	3.070	4.380									
2003	216	23	81	777.710	-1118.013	D	8.622	8.622	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.370	3.070	4.380									
2003	217	23	81	777.710	-1118.013	D	8.622	8.622	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.370	3.070	4.380									
2003	218	23	120	785.506	-1068.610	D	8.638	8.622	0.016	21.64	74.71	1.80	0.34
0.50	0.89	0.11	4.370	3.070	4.380								
2003	219	23	81	777.710	-1118.013	D	8.638	8.622	0.016	21.39	74.99	1.81	0.34
0.51	0.89	0.07	4.370	3.070	4.380								
2003	220	23	81	777.710	-1118.013	D	8.622	8.622	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.370	3.070	4.380									
2003	221	23	81	777.710	-1118.013	D	8.622	8.622	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.370	3.070	4.380									
2003	222	23	81	777.710	-1118.013	D	8.622	8.622	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.370	3.070	4.380									
2003	223	23	81	777.710	-1118.013	D	8.622	8.622	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.370	3.070	4.380									
2003	224	23	81	777.710	-1118.013	D	8.622	8.622	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.370	3.070	4.380									
2003	225	23	81	777.710	-1118.013	D	8.622	8.622	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.370	3.070	4.380									
2003	226	23	81	777.710	-1118.013	D	8.622	8.622	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.370	3.070	4.380									
2003	227	23	81	777.710	-1118.013	D	8.622	8.622	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.370	3.070	4.380									
2003	228	23	81	777.710	-1118.013	D	8.622	8.622	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.370	3.070	4.380									
2003	229	23	81	777.710	-1118.013	D	8.622	8.622	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.370	3.070	4.380									
2003	230	23	81	777.710	-1118.013	D	8.622	8.622	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.370	3.070	4.380									
2003	231	23	81	777.710	-1118.013	D	8.622	8.622	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.370	3.070	4.380									
2003	232	23	81	777.710	-1118.013	D	8.622	8.622	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.370	3.070	4.380									
2003	233	23	81	777.710	-1118.013	D	8.622	8.622	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.370	3.070	4.380									
2003	234	23	81	777.710	-1118.013	D	8.622	8.622	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.370	3.070	4.380									
2003	235	23	119	786.393	-1069.467	D	8.622	8.622	0.000	75.00	6.25	0.00	0.54
0.80	1.41	0.00	4.370	3.070	4.380								
2003	236	23	119	786.393	-1069.467	D	8.622	8.622	0.000	87.50	0.00	0.00	0.66
0.98	1.72	0.00	4.370	3.070	4.380								

2003	237	23	95	792.088	-1087.685	D	8.622	8.622	0.000	68.75	15.62	6.25	0.50
0.74	1.31	0.00	4.370	3.070	4.380								
2003	238	23	81	777.710	-1118.013	D	8.622	8.622	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.370	3.070	4.380									
2003	239	23	81	777.710	-1118.013	D	8.622	8.622	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.370	3.070	4.380									
2003	240	23	81	777.710	-1118.013	D	8.622	8.622	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.370	3.070	4.380									
2003	241	23	81	777.710	-1118.013	D	8.622	8.622	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.370	3.070	4.380									
2003	242	23	81	777.710	-1118.013	D	8.622	8.622	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.370	3.070	4.380									
2003	243	23	81	777.710	-1118.013	D	8.622	8.622	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.370	3.070	4.380									
2003	244	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230									
2003	245	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230									
2003	246	23	120	785.506	-1068.610	D	8.542	8.541	0.001	37.21	60.50	1.14	0.22
0.32	0.57	0.07	4.180	2.970	4.230								
2003	247	23	87	789.783	-1098.197	D	8.541	8.541	0.000	22.26	77.59	0.61	0.07
0.11	0.19	0.04	4.180	2.970	4.230								
2003	248	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230									
2003	249	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230									
2003	250	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230									
2003	251	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230									
2003	252	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230									
2003	253	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230									
2003	254	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230									
2003	255	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230									
2003	256	23	120	785.506	-1068.610	D	8.542	8.541	0.000	74.43	25.34	0.15	0.02
0.03	0.06	0.04	4.180	2.970	4.230								
2003	257	23	87	789.783	-1098.197	D	8.541	8.541	0.000	29.23	70.40	0.00	0.01
0.01	0.02	0.01	4.180	2.970	4.230								
2003	258	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230									
2003	259	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230									
2003	260	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230									
2003	261	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230									
2003	262	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230									
2003	263	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230									
2003	264	23	81	777.710	-1118.013	D	8.542	8.541	0.001	56.82	36.32	1.68	0.32
0.47	0.83	3.54	4.180	2.970	4.230								

2003	265	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230											
2003	266	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230											
2003	267	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230											
2003	268	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230											
2003	269	23	120	785.506	-1068.610	D	8.544	8.541	0.003	27.32	69.33	1.71	0.32		
0.48	0.84	0.00	4.180	2.970	4.230										
2003	270	23	120	785.506	-1068.610	D	8.552	8.541	0.011	20.49	77.02	1.27	0.24		
0.35	0.63	0.00	4.180	2.970	4.230										
2003	271	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230											
2003	272	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230											
2003	273	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230											
2003	274	23	81	777.710	-1118.013	D	8.425	8.425	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.920	2.820	3.990											
2003	275	23	81	777.710	-1118.013	D	8.425	8.425	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.920	2.820	3.990											
2003	276	23	81	777.710	-1118.013	D	8.425	8.425	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.920	2.820	3.990											
2003	277	23	120	785.506	-1068.610	D	8.425	8.425	0.000	40.44	54.60	2.94	0.57		
0.84	1.48	0.00	3.920	2.820	3.990										
2003	278	23	120	785.506	-1068.610	D	8.425	8.425	0.000	55.61	37.79	3.30	0.64		
0.94	1.66	0.00	3.920	2.820	3.990										
2003	279	23	120	785.506	-1068.610	D	8.425	8.425	0.000	39.80	55.78	2.30	0.45		
0.66	1.17	0.00	3.920	2.820	3.990										
2003	280	23	92	792.340	-1090.473	D	8.425	8.425	0.000	18.75	34.38	0.00	0.18		
0.27	0.47	0.00	3.920	2.820	3.990										
2003	281	23	81	777.710	-1118.013	D	8.425	8.425	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.920	2.820	3.990											
2003	282	23	81	777.710	-1118.013	D	8.425	8.425	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.920	2.820	3.990											
2003	283	23	81	777.710	-1118.013	D	8.425	8.425	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.920	2.820	3.990											
2003	284	23	81	777.710	-1118.013	D	8.425	8.425	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.920	2.820	3.990											
2003	285	23	81	777.710	-1118.013	D	8.425	8.425	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.920	2.820	3.990											
2003	286	23	120	785.506	-1068.610	D	8.448	8.425	0.023	57.58	31.28	5.25	0.99		
1.47	2.59	0.83	3.920	2.820	3.990										
2003	287	23	81	777.710	-1118.013	D	8.425	8.425	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.920	2.820	3.990											
2003	288	23	81	777.710	-1118.013	D	8.425	8.425	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.920	2.820	3.990											
2003	289	23	120	785.506	-1068.610	D	8.449	8.425	0.024	21.18	73.11	2.85	0.54		
0.80	1.41	0.11	3.920	2.820	3.990										
2003	290	23	120	785.506	-1068.610	D	8.477	8.425	0.052	8.56	89.60	0.90	0.17		
0.25	0.44	0.07	3.920	2.820	3.990										
2003	291	23	81	777.710	-1118.013	D	8.425	8.425	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.920	2.820	3.990											
2003	292	23	81	777.710	-1118.013	D	8.425	8.425	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.920	2.820	3.990											

2003	293	23	120	785.506	-1068.610	D	8.615	8.425	0.190	27.77	64.79	3.75	0.71	
1.05	1.85	0.08	3.920	2.820	3.990									
2003	294	23	81	777.710	-1118.013	D	8.523	8.425	0.098	7.32	88.16	1.98	0.38	0.55
0.98	0.63	3.920	2.820	3.990										
2003	295	23	87	789.783	-1098.197	D	8.458	8.425	0.034	4.80	92.54	1.32	0.25	0.37
0.65	0.07	3.920	2.820	3.990										
2003	296	23	81	777.710	-1118.013	D	8.425	8.425	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.920	2.820	3.990										
2003	297	23	81	777.710	-1118.013	D	8.425	8.425	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.920	2.820	3.990										
2003	298	23	120	785.506	-1068.610	D	8.425	8.425	0.000	9.49	89.21	0.25	0.05	
0.08	0.14	0.66	3.920	2.820	3.990									
2003	299	23	81	777.710	-1118.013	D	8.476	8.425	0.052	10.66	88.01	0.37	0.07	
0.10	0.18	0.61	3.920	2.820	3.990									
2003	300	23	120	785.506	-1068.610	D	8.443	8.425	0.018	8.57	88.85	1.30	0.25	
0.36	0.64	0.03	3.920	2.820	3.990									
2003	301	23	120	785.506	-1068.610	D	8.663	8.425	0.238	13.75	82.67	1.82	0.35	
0.51	0.90	0.01	3.920	2.820	3.990									
2003	302	23	120	785.506	-1068.610	D	8.425	8.425	0.000	9.75	87.95	0.89	0.18	
0.27	0.47	0.00	3.920	2.820	3.990									
2003	303	23	81	777.710	-1118.013	D	8.425	8.425	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.920	2.820	3.990										
2003	304	23	81	777.710	-1118.013	D	8.425	8.425	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.920	2.820	3.990										
2003	305	23	81	777.710	-1118.013	D	8.431	8.431	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.930	2.830	4.010										
2003	306	23	81	777.710	-1118.013	D	8.431	8.431	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.930	2.830	4.010										
2003	307	23	81	777.710	-1118.013	D	8.431	8.431	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.930	2.830	4.010										
2003	308	23	81	777.710	-1118.013	D	8.431	8.431	0.000	20.83	71.44	3.47	0.61	
0.91	1.60	0.01	3.930	2.830	4.010									
2003	309	23	120	785.506	-1068.610	D	8.576	8.431	0.145	24.00	70.39	2.85	0.54	
0.80	1.41	0.01	3.930	2.830	4.010									
2003	310	23	87	789.783	-1098.197	D	8.618	8.431	0.187	12.62	84.76	1.33	0.25	
0.37	0.65	0.01	3.930	2.830	4.010									
2003	311	23	87	789.783	-1098.197	D	8.436	8.431	0.005	11.51	86.85	0.83	0.16	
0.23	0.41	0.01	3.930	2.830	4.010									
2003	312	23	81	777.710	-1118.013	D	8.431	8.431	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.930	2.830	4.010										
2003	313	23	81	777.710	-1118.013	D	8.431	8.431	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.930	2.830	4.010										
2003	314	23	81	777.710	-1118.013	D	8.431	8.431	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.930	2.830	4.010										
2003	315	23	81	777.710	-1118.013	D	8.431	8.431	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.930	2.830	4.010										
2003	316	23	120	785.506	-1068.610	D	8.471	8.431	0.040	4.25	92.33	1.30	0.25	
0.36	0.64	0.86	3.930	2.830	4.010									
2003	317	23	81	777.710	-1118.013	D	8.431	8.431	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.930	2.830	4.010										
2003	318	23	81	777.710	-1118.013	D	8.431	8.431	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.930	2.830	4.010										
2003	319	23	81	777.710	-1118.013	D	8.431	8.431	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.930	2.830	4.010										
2003	320	23	81	777.710	-1118.013	D	8.431	8.431	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.930	2.830	4.010										

2003	321	23	81	777.710	-1118.013	D	8.431	8.431	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.930	2.830	4.010										
2003	322	23	87	789.783	-1098.197	D	8.446	8.431	0.015	1.31	88.35	1.98	0.38	0.55
0.98	6.45	3.930	2.830	4.010										
2003	323	23	81	777.710	-1118.013	D	8.431	8.431	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.930	2.830	4.010										
2003	324	23	81	777.710	-1118.013	D	8.431	8.431	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.930	2.830	4.010										
2003	325	23	81	777.710	-1118.013	D	8.431	8.431	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.930	2.830	4.010										
2003	326	23	81	777.710	-1118.013	D	8.431	8.431	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.930	2.830	4.010										
2003	327	23	120	785.506	-1068.610	D	8.439	8.431	0.008	0.15	88.45	0.00	0.00	
0.00	0.00	11.40	3.930	2.830	4.010									
2003	328	23	81	777.710	-1118.013	D	8.431	8.431	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.930	2.830	4.010										
2003	329	23	81	777.710	-1118.013	D	8.431	8.431	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.930	2.830	4.010										
2003	330	23	81	777.710	-1118.013	D	8.431	8.431	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.930	2.830	4.010										
2003	331	23	120	785.506	-1068.610	D	8.466	8.431	0.035	3.36	90.94	0.38	0.07	
0.11	0.19	4.96	3.930	2.830	4.010									
2003	332	23	81	777.710	-1118.013	D	8.431	8.431	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.930	2.830	4.010										
2003	333	23	81	777.710	-1118.013	D	8.431	8.431	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.930	2.830	4.010										
2003	334	23	120	785.506	-1068.610	D	8.453	8.431	0.023	14.42	81.60	2.03	0.38	
0.57	1.00	0.00	3.930	2.830	4.010									
2003	335	23	81	777.710	-1118.013	D	8.489	8.486	0.002	10.83	86.37	1.42	0.27	
0.40	0.70	0.00	4.060	2.900	4.110									
2003	336	23	81	777.710	-1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.060	2.900	4.110										
2003	337	23	81	777.710	-1118.013	D	8.537	8.486	0.051	10.88	86.94	1.01	0.19	
0.28	0.50	0.19	4.060	2.900	4.110									
2003	338	23	81	777.710	-1118.013	D	8.534	8.486	0.048	11.07	86.72	1.02	0.19	
0.28	0.50	0.21	4.060	2.900	4.110									
2003	339	23	81	777.710	-1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.060	2.900	4.110										
2003	340	23	81	777.710	-1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.060	2.900	4.110										
2003	341	23	81	777.710	-1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.060	2.900	4.110										
2003	342	23	81	777.710	-1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.060	2.900	4.110										
2003	343	23	120	785.506	-1068.610	D	8.557	8.486	0.070	5.18	87.31	2.52	0.48	
0.70	1.24	2.57	4.060	2.900	4.110									
2003	344	23	81	777.710	-1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.060	2.900	4.110										
2003	345	23	81	777.710	-1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.060	2.900	4.110										
2003	346	23	81	777.710	-1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.060	2.900	4.110										
2003	347	23	81	777.710	-1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.060	2.900	4.110										
2003	348	23	81	777.710	-1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.060	2.900	4.110										

2003	349	23	120	785.506	-1068.610	D	8.503	8.486	0.017	11.83	80.71	2.71	0.51	
0.76	1.34	2.15	4.060	2.900	4.110									
2003	350	23	81	777.710	-1118.013	D	8.487	8.486	0.001	5.37	92.46	1.03	0.20	0.29
0.51	0.12	4.060	2.900	4.110										
2003	351	23	120	785.506	-1068.610	D	8.591	8.486	0.105	6.97	88.84	1.90	0.36	
0.53	0.94	0.46	4.060	2.900	4.110									
2003	352	23	81	777.710	-1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.060	2.900	4.110										
2003	353	23	81	777.710	-1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.060	2.900	4.110										
2003	354	23	81	777.710	-1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.060	2.900	4.110										
2003	355	23	81	777.710	-1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.060	2.900	4.110										
2003	356	23	117	788.168	-1071.180	D	8.535	8.486	0.049	8.38	88.67	0.56	0.11	
0.16	0.27	1.86	4.060	2.900	4.110									
2003	357	23	104	792.307	-1081.109	D	8.498	8.486	0.011	6.53	90.94	0.20	0.04	
0.06	0.10	2.14	4.060	2.900	4.110									
2003	358	23	81	777.710	-1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.060	2.900	4.110										
2003	359	23	81	777.710	-1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.060	2.900	4.110										
2003	360	23	81	777.710	-1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.060	2.900	4.110										
2003	361	23	81	777.710	-1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.060	2.900	4.110										
2003	362	23	81	777.710	-1118.013	D	8.509	8.486	0.023	4.95	93.20	0.02	0.00	0.01
0.01	1.81	4.060	2.900	4.110										
2003	363	23	88	791.229	-1096.193	D	8.487	8.486	0.000	0.23	98.09	0.00	0.00	0.00
0.00	1.76	4.060	2.900	4.110										

--- Ranked Daily Visibility Change ---

START TIME	% of Modeled Extinction by Species													
Small	Large	SSalt	YEAR	DAY	HR	RECEPTOR	COORDINATES (km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	%_SO4		
%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_NO2	F(RH)	F(RH)	F(RH)						
2003	31	23	120	785.506	-1068.610	D	8.948	8.491	0.457	14.35	82.75	1.18	0.22	
0.33	0.58	0.58	4.080	2.910	4.100	1								
2003	18	23	120	785.506	-1068.610	D	8.916	8.491	0.424	4.15	93.26	1.06	0.20	0.30
0.53	0.50	4.080	2.910	4.100	2									
2003	7	23	86	789.227	-1101.058	D	8.883	8.491	0.392	3.94	93.74	1.00	0.19	0.28
0.49	0.37	4.080	2.910	4.100	3									
2003	21	23	86	789.227	-1101.058	D	8.818	8.491	0.326	11.76	84.45	1.36	0.26	0.38
0.67	1.13	4.080	2.910	4.100	4									
2003	301	23	120	785.506	-1068.610	D	8.663	8.425	0.238	13.75	82.67	1.82	0.35	
0.51	0.90	0.01	3.920	2.820	3.990	5								
2003	81	23	81	777.710	-1118.013	D	8.604	8.366	0.238	13.79	83.22	1.52	0.29	0.43
0.75	0.00	3.790	2.740	3.870	6									
2003	293	23	120	785.506	-1068.610	D	8.615	8.425	0.190	27.77	64.79	3.75	0.71	
1.05	1.85	0.08	3.920	2.820	3.990	7								
2003	310	23	87	789.783	-1098.197	D	8.618	8.431	0.187	12.62	84.76	1.33	0.25	
0.37	0.65	0.01	3.930	2.830	4.010	8								
2003	79	23	86	789.227	-1101.058	D	8.551	8.366	0.185	9.86	83.83	2.64	0.50	0.74
1.30	1.14	3.790	2.740	3.870	9									
2003	4	23	81	777.710	-1118.013	D	8.670	8.491	0.178	4.99	93.52	0.72	0.14	0.20

0.36	0.07	4.080	2.910	4.100	10												
2003	40	23	81	777.710	-1118.013	D	8.551	8.379	0.172	7.00	88.99	0.85	0.16	0.24			
0.42	2.33	3.820	2.760	3.890	11												
2003	73	23	120	785.506	-1068.610	D	8.520	8.366	0.154	10.86	88.17	0.47	0.09				
0.13	0.23	0.04	3.790	2.740	3.870	12											
2003	309	23	120	785.506	-1068.610	D	8.576	8.431	0.145	24.00	70.39	2.85	0.54				
0.80	1.41	0.01	3.930	2.830	4.010	13											
2002	365	23	120	785.506	-1068.610	D	8.610	8.486	0.124	5.78	92.15	0.76	0.14				
0.21	0.38	0.57	4.060	2.900	4.110	14											
2003	82	23	81	777.710	-1118.013	D	8.484	8.366	0.118	9.67	88.08	1.15	0.22	0.32			
0.57	0.00	3.790	2.740	3.870	15												
2003	351	23	120	785.506	-1068.610	D	8.591	8.486	0.105	6.97	88.84	1.90	0.36				
0.53	0.94	0.46	4.060	2.900	4.110	16											
2003	102	23	81	777.710	-1118.013	D	8.449	8.347	0.102	19.14	78.10	1.41	0.27				
0.39	0.69	0.00	3.740	2.720	3.850	17											
2003	294	23	81	777.710	-1118.013	D	8.523	8.425	0.098	7.32	88.16	1.98	0.38	0.55			
0.98	0.63	3.920	2.820	3.990	18												
2003	80	23	120	785.506	-1068.610	D	8.462	8.366	0.096	10.84	85.78	1.71	0.32				
0.48	0.84	0.02	3.790	2.740	3.870	19											
2003	200	23	120	785.506	-1068.610	D	8.726	8.643	0.083	61.75	33.04	2.61	0.49				
0.73	1.29	0.10	4.410	3.100	4.440	20											
2003	17	23	81	777.710	-1118.013	D	8.575	8.491	0.083	4.42	94.10	0.74	0.14	0.21			
0.36	0.03	4.080	2.910	4.100	21												
2003	32	23	87	789.783	-1098.197	D	8.460	8.379	0.081	13.52	84.50	1.00	0.19	0.28			
0.49	0.02	3.820	2.760	3.890	22												

--- Number of days with Delta-Deciview => 0.50: 0
 --- Number of days with Delta-Deciview => 1.00: 0
 --- Largest Delta-Deciview = 0.457

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CALPOST Version 6.221 Level 080724

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Run-Length VISIBILITY

VISIB BOESNCFG

(deciview)

RECEPTOR	COORDINATES (km)	TYPE	DV(Total)	DV(BKG)	DELTA DV
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107	790.446 -1078.467	D	8.489	8.475	0.014
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--- Number of recs with Delta-Deciview > 0.10: 0
 --- Largest Delta-Deciview = 0.014